

**SUPERINTENDENT'S ANNUAL REPORT  
FY 1999**

***GLEN CANYON NATIONAL RECREATION AREA  
AND  
RAINBOW BRIDGE NATIONAL MONUMENT***

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## **II. ADMINISTRATION**

### **ACQUISITION AND PROPERTY MANAGEMENT:**

#### Acquisition

A total of 10 contracts were awarded totaling over \$4.5 million during the period with one contract for \$1.035 million awarded to a small, disadvantaged business under the 8(a) program of the Small Business Administration. Three indefinite quantity contracts for Architect and Engineering services were awarded. These A/E contracts, administered by Glen Canyon NRA contracting, have been utilized by other parks on the Colorado Plateau parks such as Arches NP, Hovenweep NM, Zion NP, and Mesa Verde NP.

Small Purchases satisfied 1,489 DI-1 requisitions totaling \$1.5 million. This included 408 purchase orders, 578 Third Party Drafts and 38 Fedstrip orders.

#### Property Management

A total of seven boats and two house trailers were disposed of through GSA sales. Also, miscellaneous boat motors, excess property, scrap metal, and lost & found items were sold through the same sales. Approximately 90 computers, 42 Printers, Monitors, etc. were donated to public schools. GLCA transferred a 5-Ton Truck to Flagstaff N.M. and a Backhoe to Pipe Spring N.M. We picked up from excess a Front End Loader, Ford Semi Tractor Truck, eight passenger vehicles and surveying equipment.

### **AIRCRAFT SERVICES:**

The park Cessna 206, N2PS, was flown 560 hours and the OAS assigned Cessna 337, N462DA, was flown 50 hours. We also used the Grand Canyon contract Cessna 206 and the Big Bend assigned Cessna 206 aircraft.

N2PS was out of service Part of June, August and all of September. During June, major maintenance was being performed at an OAS contract facility in Boise, Idaho, and the downtime in August and September was due to waiting for delivery and installation of a replacement engine after a prop strike on an animal of undetermined species.

### **BUDGET, FISCAL, PAYROLL AND TRAVEL:**

To comply with regulations on reducing Imprest Funds, the funds from Bullfrog, Wahweap and Headquarters Travel Office were returned to the Accounting Operations Center. All travel paid at Glen Canyon NRA is now paid by Third Party Draft, as are small purchases at Bullfrog and Wahweap.

The integrated credit card program has created an extra workload in the budget/fiscal area in tracking and or moving charges from centrally billed to individually billed or individually billed to centrally

billed. There has also been a learning curve for employees in learning how to use the card and read their statements.

The travel section prepared and processed approximately 1,100 travel authorizations and travel vouchers in 1999, this includes in-park travel, out of park travel, permanent change of station vouchers, and OWCP vouchers.

Sources and amounts of funding for Fiscal Year 1999 were as follows for Glen Canyon National Recreation Area and Rainbow Bridge National Monument:

|                     |  |         |
|---------------------|--|---------|
| \$ 8,469,200        | Operation of the National Park Service (ONPS)  |         |
| 163,000             | No-Year Fee Program                            |         |
| 5,500               | Volunteer in Park Program                      |         |
| 135,000             | 6C Funding                                     |         |
| 15,000              | Contingency Fund (Administrative History RABR) |         |
| 26,000              | Public Health Operations (Seasonal Sanitation) |         |
| 45,000              | Mistake Alcove                                 |         |
| 10,000              | High Boy House Assessment                      |         |
| 3,800               | Tamarisk Removal                               |         |
| 60,000              | Birds  |         |
| 16,000              | Inadvertent Discovery MOU                      |         |
| 16,200              | Remove Tamarisk Coyote Gulch                   |         |
| 10,000              | ARPA   |         |
| 10,000              | Drug - Undercover Operations                   |         |
| 10,000              | Characterization/disposal Hazwaste             |         |
| 45,000              | Wahweap Underground Cleanup                    |         |
| 12,000              | Replace Failing Sewer Lines/Lift Station       |         |
| 501,300             | Wahweap Lift Station Backup                    |         |
| 310,100             | Halls Crossing Sewer Lift Station              |         |
| 240,000             | Rehab Halls Crossing Sewer Lift Backup         |         |
| 420,500             | Hite Sewer Lagoon Upgrade                      |         |
| 367,700             | Dedicated Waterline @ Lees Ferry               |         |
| 60,000              | Emergency Generator Repair @ Halls Crossing    |         |
| 75,000              | Replace Sewer Wahweap Resident Area            |         |
| 40,000              | Repair Rainbow Bridge Trail                    |         |
| 155,800             | Equipment Replacement                          |         |
|                     | Replace 1970 Bullfrog Backhoe                  | 54,860  |
|                     | Replace Rigid Inflatable                       | 79,657  |
|                     | Replace 1985 Propane Forklift                  | 21,316  |
| 299,600             | Quarters Income                                |         |
| 1,843,300           | Reimbursables                                  |         |
|                     | Filming/Special Use Permits                    | 51,200  |
|                     | IBP  | 36,600  |
|                     | Construction Set-Aside                         | 49,494  |
|                     | BOR Studies                                    | 126,749 |
|                     | Page Hospital (Ambulance)                      | 23,341  |
|                     | Navajo Nation                                  | 160,000 |
|                     | SLIF   | 494,965 |
|                     | Water/Sewer Income                             | 606,471 |
|                     | Electric Income                                | 294,474 |
| <b>\$13,365,000</b> | <b>TOTAL FUNDING</b>                           |         |

## INFORMATION MANAGEMENT

Developed Glen Canyon NRA World Wide Web Page for the purpose of disseminating information out to our remote sites.

We integrated ccmail into the World Wide Web Page for the ability to access electronic mail throughout the Department of Interior's Intra Net.

Upgraded two windows NT servers from Dual 200MHz processors and 64MB RAM to Dual 450MHz processors and 512MB of RAM.

Provided backup telephone support and computer support for surrounding parks, and helped two Regional Offices install and integrate ccmail for the web.

Installed over thirty new client computers and their associated peripheral devices throughout the park.

Performed several electronic mail system upgrades.

Attended an InterDev Development course for the sole purpose of bringing applications to the Glen Canyon NRA web page. Course was held in San Francisco and lasted one week. A direct result of this class the park now has an in park calendar, an interactive notes page, and a forum page.

Installed a new software and hardware program for the purpose of insuring software compliance, Y2K compliance, and an accurate software and hardware inventory. This program monitors all changes to individual computers, and prints a detailed report showing exactly what is in use.

Developed another component to the Dispatch Database Program, thus allowing continual support for law enforcement personnel in tracking all forms of offences.

Upgraded all park computer web based client software.

Upgraded Navajo NM server software and installed ccmail Remote for their remote personnel.

Engineered Glen Canyon NRA's headquarters new backbone and switch upgrade. This upgrade utilizes state of the art technology in processing and transmitting packets.

Traveled to Grand Canyon NP as the regional Y2K representative for the sole purpose of performing a Y2K compliance audit.

Attended the Intermountain Region Computer Specialist seminar in New Mexico.

Developed the Glen Canyon NRA Information Management Plan for 1999-2000.

Developed a park-wide information management committee. This committee was instituted in helping the division rewrite the Information

Management Plan, and carry forth team special projects for future development.

Developed a new Employee Performance Plan for the purpose of hiring a computer assistant at the grade level of GS-5//7/9.

#### **TELECOMMUNICATIONS**

October FY99, The Telecom Office worked on radio replacement of non-narrowband portable radios and replaced thirty older King radios with new units procured at the end of FY98. This leaves 87 portables that still need upgraded for narrowband conversion. The Telecom Office planned to use radio replacement funds to continue the conversion process, however DOI Directives prevented normal acquisition of analog radios. The new digital radios that are required by DOI for law enforcement were not budgeted for nor any funding source found.

The computer in the HQ PBX room was upgraded to a Pentium 200mhz with a larger hard drive; this computer is used to record numbers dialed by outgoing calls for traffic analysis and to monitor trunk traffic for possible toll fraud. The computer upgrade was needed for the latest version of Infotel Call Accounting software that is Y2K compliant.

Helicopter travel was accomplished to Mt. Ellsworth, Navajo Mountain, and Paria overlook to accomplish fall radio maintenance checks and winter prep for park radio repeater sites.

November 1998 replaced the consoles in the dispatch center with new Skaggs furniture. The dispatch operators had been using standard business furniture to hold the radio and telephone equipment, which left wiring exposed and no desk room for the operators.

The Telecom Office reprogrammed the park telephone switches with new restriction tables. The park had been programming in new area codes, as new ones became available. Software changes now let us to bypass this requirement.

December 1998 requested new digital trunks for Bullfrog from AT&T to improve voice quality, prevent blocking, and to extend the park WAN to include Uplake areas.

January 1999 installed software upgrade for telephone switch at Wahweap.

Evaluated digital repeater for Navajo National Monument.

February 1999 installed new digital trunks for Bullfrog.

Attended Helicopter Safety training and Water Ditching & Survival training.

March 1999, replaced the local US West trunks to the telephone switch in the Headquarters with digital trunks.

Replaced the analog lines to the airport with one digital line. The telephone lines to the airport were noisy and often experienced signal level loss that impaired radio transmissions.

April 1999, telephone and data wiring in the headquarters.

Ordered new antennas for base stations at new fire stations for Bullfrog and Hite.

May 1999 replaced the NOAA weather radio and the park Navajo Mountain repeater with new GE Master III stations.

Repaired the telephone cable at Dangling Rope. Planning to replace the telephone cable in the housing area at Dangling Rope and increase capability.

Installed new antenna tower and telecom wiring for the new Fire Hall at Bullfrog.

Repaired electrical systems on aircraft used by the NPS.

June 1999, received new portable radios for park, programmed, and distributed.

Raft float trip down the Colorado River from Moab to Hite to evaluate radio system, cellular phone access, and satellite phone access.

Replaced batteries on the telephone switch in the headquarters.

July 1999, Antelope Point power and telephone planning.

Telephone long distance access planning with Jake Schild to transition from AT&T to MCI.

Installed Y2K software upgrades to the Newbridge WAN network and the telephone call accounting system. The park telecommunications systems are Y2K ready.

August 1999, installation of new telephone cable for the Dangling Rope housing area. Dangling Rope now has 75 pair telephone capability in the housing area and a full 25 pair down to the marina.

Telephone planning for Dangling Rope with Adaptive Broadband. The park needs to evaluate a 400mhz digital radio link from the airport to Dangling Rope. A pair of radios will arrive in October for testing.

Added ten feet to the airport radio tower. Dispatch was experiencing radio interference from the other antennas on the tower. The tower section was added to improve antenna separation.

Worked with Dan Bishop and Jake Schild to input radio system replacement and telephone switch upgrades for the headquarters into equipment replacement programs. The expense of radios and the telephone system appears too great for the park budget to manage. Telephone switch upgrades for the headquarters now exceed \$80K (i.e. voice mail, 911 support) and the radio system requests will be over \$100k annually and or \$1.3M to convert to digital.

September 1999 continued to make wiring improvements to telephone system at Dangling Rope. Moved the telephone switch from the maintenance

building to the recreation hall. The recreation hall is the center of all communication facilities at Dangling Rope.

Telephone planning for Hite - requested another telephone line for the new ranger office and refurbished old telephones for the new installation.

Placed order for 30 analog radios approved by WASO with year-end funds. DOI and NPS require our radio system to be converted to digital; therefore no more radios will be acquired that do not meet this standard after October 1<sup>st</sup>.

During FY99, the Telecommunications Branch continued to provide the following for all government agencies:

- Technical assistance to agencies that do not have a Telecom Specialist on staff or an expert in a given field available. (Computer, Radio, Telephone)
- Responded to numerous requests for emergency information following system failures.
- Provided technical guidance on request to park radio coordinators.

Significant special projects or events that occurred in FY99 were:

- Bench repaired and acceptance tested numerous mobile and portable radios.
- Installed reinstalled and tested new or enhanced narrowband radios in the park. All mobile radios, all base stations and all repeaters are now narrowband capable. 87 portables left to upgrade.
- Presented training to all GLCA personnel as required on new radios, telephones and associated equipment.
- DOI directive - no more analog radios to be purchased. We are directed to procure digital radios only after October 1<sup>st</sup>.
- Assisted Chad Nelson, computer specialist, in upgrading the park computers to Windows98 and etc.

## **II. PERSONNEL SERVICES**

### **III. Recruitment and Staffing**

44 permanent positions were filled (including those with EOD's known through 11/7/99). 16 white females, 1 Hispanic female, 3 Native American females, 1 Native American male, and 23 white males were selected.

1 Term appointment was filled by a white female.

11 Recruitment Bulletins for temporary employment were issued for the following positions:



POSITION TITLE, GRADE:                      SELECTEES

Bio. Science Tech, GS-07:            2 white females  
Park Ranger (Interp), GS-05:       4 white males  
Visitor Use Asst, GS-04            1 white female, 1 white male  
Archeological Tech, GS-07:        1 white male  
Sanitarian, GS-11:                1 white male  
Laborer, WG-03:                    1 minority male  
   1 minority female  
   1 white female  
   2 white males  
Maint. Worker, WG-05:            1 Native American female  
   1 Native American Male  
   1 white male  
Bio. Science Tech, GS-05:        1 white female, 1 white male  
STEP Park Ranger(Interp) GS-04: 1 white female  
STEP Park Ranger(Interp) GS-03: 2 white female  
STEP Park Aid(Interp) GS-01:     1 minority female, 1 minority male  
STEP VUA, GS-04:                1 white female  
STEP VUA, GS-02:                1 white female  
STEP Adm Supp Clk (Disp), GS-4: 1 white female  
STEP Bio Aid, GS-03:            1 white female, 1 white male  
STEP Bio Aid, GS-02:            1 white female  
STEP Bio Aid, GS-01:            1 minority male

Seasonal Park Ranger Certificates:

Park Ranger (LE), GS-05:        1 white male, 1 white female  
Park Ranger (Interp), GS-05:    3 white males, 1 white female

Rehires

Park Ranger (LE):                6 white males  
Park Ranger(Interp):            5 white females  
   1 minority female  
   1 minority male  
   2 white males  
Bio. Science Tech, GS-07:        1 white female, 1 white male  
Bio. Science Tech, GS-06:        1 white female, 1 white male  
STEP Visitor Use Asst, GS-04: 1 white female  
Supv VUA, GS-06:                2 white females  
Supv VUA, GS-05:                1 white female  
Visitor Use Asst GS-05:        1 minority female  
   3 white females  
   1 white male  
Visitor Use Asst GS-04:        10 minority females  
   6 white females  
   1 minority male  
   5 white males  
Maintenance Worker, WG-05:    2 minority female  
   1 white female  
   4 minority males  
   4 white males  
Laborer, WG-03:                1 minority female, 1 white male  
  
Nav Aids Repairer, WG-07:       1 white male  
MVO, WG-07:                    1 white male

#### IV. Position Classification

#### V. New permanent positions established:

Park Ranger (FilmPerm/SPU), GS-025-05 (Entry Level for PD 1441-05)  
Natural Resource Program Mgr, GS-401-12  
Computer Specialist, GS-334-09  
Clerk-Typist (Receptionist), GS-322-04  
Park Ranger (P)(Emergency Svcs Prog Mgr), GS-025-11  
Science Education Spec., GS-1701-07 (entry level)  
Science Education Spec., GS-1701-09  
Park Ranger (I), GS-025-09 (NPS Benchmark PD)  
Maintenance Worker, WG-4749-07  
Maintenance Mechanic Leader, WL-4749-10

#### New Term positions established:

Wildlife Biologist, GS-486-09

#### New seasonal/temporary positions established:

Bio. Science Aid, GS-404-01  
Bio. Science Tech, GS-404-05  
Maintenance Worker, WG-4749-05  
Laborer, WG-3502-03  
Administrative Support Clerk (Dispatch), GS-303-04

#### Other classification actions:

| <u>From:</u>                            | <u>To:</u>  |
|---|---|
| Hydrologist, GS-1315-09                 | Interdisc, Hydrologist, GS-1315-11/Biologist, GS-401-11 |
| Park Ranger (FilmPerm/SPU), GS-025-09   | Redescription, no change in classification              |
| Concessions Mgmt Spec, GS-1101-11       | Redescription, no change in classification              |
| Supv. General Engineer, GS-801-14       | Interdisc, Supv. General Engineer, GS-801-13            |
| Civil Engineer, GS-810-12               | Facility Manager, GS-1640-13                            |
| Supv Park Ranger (Uplake DR), GS-025-12 | Redescription, no change in classification              |
| Park Ranger (P)(HX SDR), GS-025-11      | Redescription, no change in classification              |
| Visitor Information Asst, GS-1101-05    | Park Guide, GS-090-06 (two positions)                   |
| Facility Manager, GS-1640-12            | Redescription, no change in classification              |
| Maintenance Mechanic Leader, WL-4749-10 | Redescription, no change in classification              |

#### Office Of Workers Compensation Program

In 1999 there were 24 new on-the-job injury claims processed. Of these, 18 accidents resulted in no lost time. There were 512 lost time hours during this period, of which 6 injuries accounted

for all lost time. Medical costs reported through OWCP Specialist amounted to approximately \$ 29,324.99. There were additional costs not reported to Glen Canyon National Recreation Area.

#### Incentive Awards

Glen Canyon National Recreation Area presented the following awards to employees:

|                       |     |
|-----------------------|-----|
| On-The-Spot Award     | 104 |
| Time-Off Award        | 16  |
| Star Award            | 9   |
| Quality Step Increase | 0   |
| Non-Monetary Award    | 5   |

#### Personnel Actions

Approximately 2345 personnel actions, covering the full range of actions, were processed this year.

#### Drug Testing

18 permanent and 8 seasonal employees were drug tested, all with negative results.

#### Employee Development

Training courses offered at Glen Canyon National Recreation Area this year were:

- DOIMOC (Boating Op Certification)
- Fee Collection Training
- Law Enforcement Refresher
- EMT and IEMT Refreshers
- Search and Rescue
- Seasonal Orientation
- Interpretation Orientation
- Structural Fire
- Critical Incident
- Hazardous Material Technician
- Safety Hazmat Training
- Computer Training
- Miscellaneous Safety Courses/Exercises
- CPR and First Aid

## **V. RESOURCE AND VISITOR PROTECTION**

Cindy Ott-Jones became the Division Chief in March 1999. David Sandbakken, Phil Hibbs, and Cindy Ott-Jones shared acting assignments as Chief Ranger beginning August 30, 1998. Brian O'Dea accepted position as Emergency Services Coordinator, following the transfer of Pete Dalton to Yellowstone.

### **Personnel**

#### Uplake District

Mike Mayer became the Uplake District Ranger. He transferred from Everglades NP. Lisa Ford, the district clerk, transferred to dispatch. Roy Jenkins, from Grand Tetons NP, accepted the position of district clerk at Bullfrog.

Mark Pita, Bullfrog ranger, resigned. Lee Buschkowsky, Greg Wozniak, and Dave Shifsky signed on as new rangers at Bullfrog.

Russ Miller, Halls Crossing Subdistrict Ranger, transferred to Yellowstone NP. Steve Luckesen, Halls Crossing ranger, was promoted to Halls Crossing Subdistrict Ranger. Phil Akers, Halls Crossing ranger, transferred to Bullfrog. John Waterman, accepted a position at Halls Crossing, from Shenandoah NP. He later transferred to Death Valley.

Aaron Kania accepted position as a Hite ranger.

Gael Hill transferred from U.S. Forest Service to clerk position at Escalante.

#### Downlake District

Lisa Slobodzian, Dangling Rope Subdistrict Ranger, transferred to Great Smoky Mountains National Park. Blu Picard accepted Dangling Rope Subdistrict Ranger position, transferring from Grand Canyon. Mark Henderson, Dangling Rope ranger, resigned his position. Eric Martin, accepted Dangling Rope ranger position, and then resigned in less than two months. Ira Blitzblau accepted position as a Dangling Rope ranger. One Dangling Rope ranger position remained vacant through the end of 1999.

Maya Seraphin, Wahweap ranger, transferred to Glacier Bay. Will Lebon passed-on in July. He was a Wahweap ranger, and is sorely missed. Chris Pergiel, the Wahweap Subdistrict Ranger, accepted the Katmai Chief Ranger position in December of 1999. Jim Gould transferred from the Hite ranger position to a Wahweap ranger position. Hunter Bailey accepted a permanent position as a Wahweap ranger. He had been a seasonal ranger at Wahweap. Beth Meyers transferred to a Wahweap ranger position from Death Valley. Billy Shott accepted a Wahweap ranger position from Denali NP.

### **Fee Program**

This was the first year since Glen Canyon began collecting fees in 1997 that the park ran all entrances at full capacity. The automated fee station at Lees Ferry ran year-round, the booths at Wahweap ran from April through the end of October, the booths at Bullfrog and Halls Crossing and the automated fee station at Hite ran from late April until the end of October.

Our fee structure remained the same.

|            | <u>FEE</u> | <u>ANNUAL</u> | <u>7-DAY</u>       |
|------------|------------|---------------|--------------------|
|            | Vehicle    | \$15          | \$5                |
|            | Vessel     | \$20          | \$10 plus \$4 each |
| additional | Individual | \$15          | \$3                |

Only motorized vessels were charged. Kayaks, canoes, and sailboats without engines/motors were not charged a user fee.

Staffing for this year included the Fee Program Manager, one full-time permanent Supervisory Visitor Use Assistant, one STF Supervisory Visitor Use Assistant, three seasonal supervisors, and 33 seasonal Visitor Use Assistants for our lakewide program. This includes part-time and full-time staffing. We also paid partial salaries for interpretive staff to perform fee duties in the isolated areas with the automated stations at Lees Ferry and Hite.

### **Dispatch**

Patti Briggs accepted a ranger position at Gateway NRA. Brenda Russell moved to the secretary position in the Chief Ranger's Office. Jim Pickett transferred to Cuyahoga Valley NRA. Lisa Ford, Lori Goodman, and Orlinda Tsosie accepted dispatch positions.

### **Tort Claims**

During FY99 there were 6 tort claims. Actions were taken on 6 claims. Awards were made on 5 claims, while 1 claim was denied.

### **Wildland Planning and Response**

Three wildland fires totaling nearly 11 acres were reported in 1999. All were apparently human caused, one by careless smoking and two by escaped campfires. The fires primarily burned cheaters and tamarisk. A suspect was identified in one of the cases and later admitted culpability.

Seventeen employees maintained Red Cards for a variety of job qualifications, but none were dispatched outside of the park on interagency assignments. The required annual 8 hour Wildland Fire Refresher was conducted in June.

Glen Canyon NRA continues as a member of the Color Country Interagency Wildland Fire Management Area.

### Major Incidents

1999 was a busy year at Glen Canyon NRA. We had the continuing high visitation on the main summer holiday weekends that required additional personnel resources from the outside on Memorial Day and Independence Day weekends. Although the problems we have faced in the past with Memorial Day Weekend crowds and partiers have successfully ended, we are seeing a continuing increase in the number of visitors and associated crowd control problems over the 4<sup>th</sup> of July weekend, especially at Wahweap.

Ranger and criminal investigators continued to assist with investigation, following the homicide and assault on officers in Cortez, Colorado and the assault on the superintendent at Hovenweep in 1998. Criminal investigators assisted with review of evidence and "night stalker" flights. In September, surveillance teams were utilized involving Utah and Arizona agencies, as well as National Park Service rangers and the FBI. This major IC-coordinated operation resulted from information that one suspect might be in the area.

Investigation is continuing for an alleged homicide that occurred at Bullfrog in July. The victim was in a vehicle that was driven over a cliff and into Lake Powell. The driver jumped from the vehicle, during the alleged premeditated incident. Investigation, involving park service criminal investigators, was in cooperation with Kane County Sheriff's Office.

Rangers discovered counterfeit and forged checks during a vehicle stop in the Wahweap area. Investigation involving park service criminal investigators led to an interstate forgery ring. Glen Canyon NRA investigators worked with FBI, as well as agencies in Arizona, Utah, Nevada, Washington, Oregon, and California. The two original adult suspects have pled guilty to felony charges.

### Statistical Information

The five-year record of criminal activity is as follows:

|                          | <u>CALENDAR YEARS</u> |             |             |             |  |
|--------------------------|-----------------------|-------------|-------------|-------------|--|
| <u>1995</u>              | <u>1999</u>           | <u>1998</u> | <u>1997</u> | <u>1996</u> |  |
| Part I Offenses<br>143   | 156                   | 145         | 208         | 139         |  |
| Part II Offenses<br>1555 | 1453                  | 1686        | 1777        | 1149        |  |
| Arrests<br>232           | 195                   | 159         | 311         | 187         |  |

|                 |      |      |      |      |
|-----------------|------|------|------|------|
| Total Incidents | 6084 | 6366 | 7745 | 5232 |
| 5623            |      |      |      |      |

Above incidents include vehicle and boat minor violations, as well as other emergency service incidents.

A commissioned staff that numbered 31 rangers, 2 criminal investigators, and 8 seasonals handled these incidents. Eight of these rangers were STF, working six months. Six dispatch personnel facilitated operations.

Drug offenses showed a decrease, 103 cases vs. 159 cases in 1998. Proactive law enforcement activities, especially on Lone Rock Beach and drug task force activities, resulted in the majority of these contacts with persons using drugs.

| <u>Offense</u> | <u>1999</u> | <u>1998</u> | <u>1997</u> | <u>1996</u> | <u>1995</u> |
|----------------|-------------|-------------|-------------|-------------|-------------|
| Drugs          | 103         | 159         | 101         | 61          | 204         |
| Alcohol        | 276         | 310         | 264         | 330         | 297         |
| Weapons        | 77          | 81          | 98          | 74          | 108         |

### **Magistrate System**

Most court proceedings before U.S. Magistrate Judge Stephen L. Verkamp were held either at the Wahweap Ranger Station or the Federal Court in Flagstaff in FY99. The Magistrate traveled to Page 11 times in FY99 to preside over the park's court cases. Rangers and investigators also attended court in Kanab, UT and U.S. District Court in Salt Lake City, UT and Phoenix, AZ.

The park is still retaining warrants for suspects who live within 80 miles of the park; all other warrants are sent to the U.S. Marshall's Service in Flagstaff, Arizona.

The Downlake District still does not have adequate holding/detention facilities. Approval was received from the U.S. Marshall's Service in 1996 and renewed in 1997 to utilize the Page Police Department Jail for a maximum of ten (10) prisoner days per year. All other prisoners must either be transported to Kanab, Utah, 85 miles one-way; or Flagstaff, Arizona, 135 miles one-way. Construction of a new Coconino County facility at Page, AZ is still pending.

### **Visitor Safety**

There were 721 documented medical incidents in CY99, 97 advanced life support cases, 296 basic life support cases, and 267 minor cases or cases in which patients received assistance but they refused or did not require transport to a medical facility.

There were 62 air evacuations in CY99. A private medical helicopter service stationed in Page, Arizona handled 96 percent of the cases.

Dr. Robert Baron continues to serve as Medical Director of the park's EMS program. He comes to the park 11 times per year to provide continuing education for the park's EMS staff.

There were 150 Search and Rescue operations in CY99, a decrease of 75 cases below the 225 SAR incidents in 1998. There were 138 SAR incidents in 1997.

#### Visitor Fatalities

|                          | <u>1999</u> | <u>1998</u> | <u>1997</u> | <u>1996</u> |
|--------------------------|-------------|-------------|-------------|-------------|
| <u>1995</u>              |             |             |             |             |
| Accidental Death<br>8    | 6           | 10          | 23          | 11          |
| Natural Causes<br>1      | 3           | 5           | 2           | 5           |
| Suicide<br>0             | 1           | 2           | 1           | 0           |
| Homicide<br>0            | 1           | 0           | 0           | 1           |
| Undetermined<br><u>0</u> | <u>1</u>    | <u>0</u>    | <u>0</u>    | <u>0</u>    |
| Total Fatalities<br>9    | 12          | 17          | 26          | 17          |



## **I. MANAGEMENT**

### **INTRODUCTION**

During the past year several personnel changes occurred within the park's management team. Chief of Facilities Vic Knox accepted a position in Salt Lake City as the Utah State Director and was replaced by Dan Bishop, the park's facility manager. Assistant Superintendent Dale Ditmanson accepted a position in the Northeast Regional Office and was replaced by Kayci Cook, Superintendent of Fort McHenry National Monument and Hampton National Historic Site. Chief of Concessions Lee Shenk returned to San Francisco and Kathy Fleming from the Concessions Denver Support Office was selected as his replacement.

This was the first year under the fee demo project that fees were collected from all sub-districts. During FY 1999, Glen Canyon collected approximately \$2.1 million in fees with a cost of collection at \$587,000 with an additional \$10,000 for maintenance. These revenues were collected from five different sub-districts as follows: Wahweap- \$1.38 million; Bullfrog - \$537,000; Halls Crossing - \$27,800; Hite - \$70,400; and Lees Ferry - \$170,600. Of the \$2.1 million, Glen Canyon was able to retain 80% at the park to be spent on two currently approved and on-going projects which are the Water Quality Initiative and the rehabilitation of Lonely Dell Historic District at Lees Ferry. In FY 1999, \$150,000 was expended on Lees Ferry, and \$351,000 on Water Quality. Water quality continues to be a major focus of the area's resources and personnel.

We continue to work cooperatively with our county commissioners on issues within the boundaries of Glen Canyon NRA and we hosted both Senator Bennett's and Congressman Hansen's staffs for field trips during the year.

Glen Canyon NRA/Rainbow Bridge NM and the Rainbow Bridge Consultation Committee, comprised of designated representatives from the Hopi, San Juan Southern Paiute, Kaibab Paiute and White Mesa Ute Council of the Ute Mountain tribes, the Navajo Nation and 4 of its Chapters, and the Utah State Historic Preservation Office, were awarded the National Park Foundation Award for Cultural Resource Partnership. The award was presented for the culturally sensitive management, maintenance, and interpretation of Rainbow Bridge National Monument. Superintendent Alston and representatives from all 5 tribes attended the award ceremony in Washington, D.C.

Visitation to Glen Canyon NRA and Rainbow Bridge NM continues to increase with a 10% increase for Glen Canyon over 1998 total visits and nearly 18% increase in visitors to Rainbow Bridge NM over the same period last year.

### Special Events

March 23, 1999, a ribbon cutting ceremony was held at the Wahweap Fishing Dock. This dock was the result of the combined efforts of ARAMARK, Utah Division of Wildlife Resources, Arizona Game and Fish, local fishing enthusiast Bubba Puckett and the National Park Service. This facility provides a quality place for individuals of all ages to enjoy the sport of recreational fishing.

May 3, 1999 we held an open house to dedicate the new fire hall at Bullfrog. The new fire hall/ranger station at Hite will be dedicated in January 2000.

Antelope Point meetings continued on a regular basis with the operation team consisting of members from the Navajo Nation, Bureau of Indian Affairs, Navajo Tribal Utilities, local LeChee Chapter representatives, Navajo Parks and Recreation Department, local land users, county law enforcement officials, and the National Park Service. After many years of planning and coordinating Antelope Point became a reality on July 6, 1999. With a grant totaling \$794,879.00 from the Arizona State Lake Improvement Fund, facilities constructed included a public launch ramp, gravel parking area, restrooms, breakwater and courtesy docks. A grand opening ceremony was held on-site July 14<sup>th</sup> with several hundred invited guests and dignitaries from the Navajo Nation, Bureau of Indian Affairs, Bureau of Reclamation, National Park Service, and local city and county officials. The Navajo Parks and Recreation Department staff the fee collection booth, located outside NRA boundaries.

#### Government Performance Results Act (GPRA)

Glen Canyon NRA and Rainbow Bridge NM continued with compliance with the terms of GPRA, the National Park Service and GLCA Strategic Plans for FY1998-2002, and the GLCA Annual Performance Plan for FY 1999. Specific budget and goal achievement performance was reported in the Annual Performance Report for FY1999.

Significant learning, changes, and progress were achieved toward GPRA requirements. One area of progress was the substantial amount of data analysis regarding visitor safety. The baseline years of FY92 through FY96 were reanalyzed in detail, as was the specific visitor accident/incident history for FY97 and FY98. The result was a detailed picture of exactly what causes were drivers for visitor accidents permitting efficient resource allocation to lower the accident rate.

Progress was also achieved in the natural and cultural resource goals that are being substantially redefined with the new NPS Strategic Plan. Park management of Threatened and Endangered Species habitat, cultural landscapes, archeological site documentation and condition, disturbed area restoration, and other natural and cultural resources is well on the way to scientific based decision making and management actions.

#### **SPECIAL PARK USES:**

After 6 years as the special park use coordinator, Eileen Martinez accepted a transfer to the Interpretive Division in March and her position was filled by Lauren Berdow of Alaska. Lauren decided to return to her former job in Alaska and the position was filled by Lynn Picard of Grand Canyon. Lynn had previously worked for Glen Canyon under an intermittent position as a film permit monitor.

47 film permits were issued in FY99 for a total of 111 days of filming within park boundaries. 28 permits involved motion picture photography and 19 permits involved still photography. Helicopters were used for filming in 11 permits. Many film crews visited numeroites as part of their permit. Popular sites for filming included Padre Bay (listed on 10 permits), Wahweap Bay (8), Colorado River below Glen Canyon Dam (6), Lees

Ferry Road (6), Glen Canyon Dam (5), Gunsight Canyon (5), Warm Creek Road (5), the Hite area (4), Face Canyon (4), Labyrinth Canyon (3), Lone Rock Beach (3), Beehive Rock (3), Shoreline Drive (3), Muley Point (2), Lees Ferry (2), Navajo Bridge (2), Hwy 89 near UT/AZ border (2), Romana Mesa (2). Areas listed on one permit were Marble Canyon, Stateline Launch Ramp, Sunrise Overlook, Wahweap Rental Dock, Navajo Canyon, Crosby Canyon Road, Castle Rock, Gunsight Butte, Dominguez Rock, Cookie Jar Butte, Gregory Butte, Kane Wash, Pauite Canyon. The types of filming and photography ventures are broken down as follows:

**16 car commercials** (Hertz Rental Cars, Mitsubishi, Vantage Mini-vans, Jeep, VW, Chrysler, Chevy Impala, Dodge Prowler, Ford Ranger, Honda, three Ford shoots, VW and Audi, Dodge Neon, Pontiac Bonneville)

**3 boat commercials** (two Bayliner shoots, Mercruiser)

**7 other advertisements** (Cellular One, Wonda Coffee, Camperworld, Spring Water, Impulse Body Spray, two ARAMARK shoots)

**6 fashion shoots** (German winter fashions, Timberland Shoes, Belk Stores, two Eddie Bauer shoots, Swiss fashions)

**4 documentaries** (*Aware of Water* - Netherlands film crew; *Southwest News Story* - US film crew; *Natural Born Wonders* - British film crew; *Where Utah Unfolds* - US film crew)

**2 movies** (*Flintstone* movie-Universal Pictures, *Le Beaute de Pandore* - (Pandora's Beauty)-Canadian film crew)

**2 fishing shoots** (ARAMARK, Lees Ferry Anglers)

**2 public service announcements** (Utah Labor Commission, ARAMARK houseboat safety video)

**2 special events filming** (ARAMARK, International Adventure Tours)

**1 travel video** (Arizona Office of Tourism)

**1 music video** (group 112)

**1 video footage not for broadcast** (Visual Magic)

Fee revenues collected as a result of these film permits totaled approximately \$40,400.

27 Special Use Permits were issued in FY99 for a total of 86 days within park boundaries. Fishing tournaments dominated special park use days totaling 56 tournament days on the lake. 5 organizations had tournaments based at Wahweap and 2 organizations had tournaments based at Bullfrog; one organization (WON Bass) had tournaments at both Wahweap and Bullfrog. Tournament sizes ranged from estimates of 25 to 300 people. Total user days for fishing tournaments were approximately 7660. The types of Special Use Permits are broken down as follows:

**8 Fishing Tournaments** (United Metro Materials, Wild West Bass, B.A.S.S. Inc., WON Bass, Utah B.A.S.S., Colorado Bass Federation, American Bass Association, Page Christian School)

**6 Weddings** (locations include Rainbow Bridge, Wahweap Amphitheater, Dam Overlook, Lonely Dell, Bullfrog South, Dominguez-Escalante Overlook)

**5 Gatherings** (American Rivers dinner at Lonely Dell, ARAMARK special events, Page Middle School party near the Wahweap Picnic Area, First Baptist Youth Group water-skiing group, Calliope Tours Charity Bike Race along Lakeshore Drive)

**2 Church Services** (First Baptist Church communion and baptism at Wahweap Swim Beach)

**2 Four Wheel Drive trips** (Red Rock Four Wheelers to Hole in the Rock)

**2 SAR Training sessions** (Coconino County-east side of Glen Canyon at Tunnel Road, Classic-Grand Bench Road)

**2 Adventure Race groups** (Four Winds Adventure Race-Wahweap Bay, Padre Bay, Gunsight Bay, Romana Mesa, Warm Creek Bay, the Chains, Four Winds Weekend Training Workshop-Wahweap Bay, Padre Bay, Romana Mesa, Antelope Island)

Fee revenues collected as a result of these special use permits totaled approximately \$10,925.

## **EQUAL OPPORTUNITY**

The following summary highlights the activities of the Glen Canyon NRA EO Committee during this past fiscal year. These activities reflect the effort of the committee to follow the Affirmative Action Plan and to promote the EO policies of the park and the NPS.

The EO Committee met on a periodic basis throughout the year to find proactive methods to promote EO principals and policies at Glen Canyon. Members of the committee attended various meetings and sessions in order to become more knowledgeable about EO practices, policies, and procedures and then bring this knowledge back to the park to share with other employees and to put the knowledge gained into practice. The following is a list of these activities:

- The Northern Arizona Special Emphasis Coalition (NASEC) sponsored a leadership skills course on how to deal with difficult people. This training was open to everyone in the park at no cost, and a number of the GLCA staff were able to attend.

- Vernon Cody was selected as the new EO Counselor for GLCA. He was then sent to Denver for the 40-hour training course to become a certified EO Counselor and continues to serve the park in this capacity. At this time he is the only EO Counselor certified for GLCA out of the three EO Counselor positions authorized.

- GLCA was also represented at the NASEC meeting held at the Petrified Forest National Park. We were able to share our expertise in EO practices as GLCA had made more progress in achieving our EO goals than PEFO. We will continue to offer assistance as requested.

- Three members of the EO Committee successfully completed the USDA Graduate School correspondence course *EO-Its Place in the Federal Government*. The books and course material have been studied by other members of the EO Committee and are available for check out from the EO Committee by any GLCA employee who wants to use them for self-study.

- The NASEC meeting held in Flagstaff was also attended by the GLCA representative of the EO Committee in April. The Bureau of Reclamation EO representative attended this meeting at the invitation of the EO Committee. In turn GLCA staff were invited to participate in the EO Committee efforts of the Bureau of Reclamation, including the NASEC meeting held at the GLCA dam, and diversity training classes offered by the Bureau at the dam. A representative of the Bureau was invited to attend all of GLCA EO Committee meetings and was able to attend a number of them.

The EO Committee presented mandatory and optional EO training sessions to the GLCA employees as follows:

- The mandatory Sexual Harassment Training session was presented to all employees, twice downlake and twice uplake so that all employees would have the opportunity to attend.

- A Diversity Training session was also presented by members of the EO Committee for the benefit of all employees, twice each for uplake and downlake.

The EO Posters and bulletin boards were updated with current publications and photographs.

The EO Committee has lost a significant number of members this past year due to transfers to other parks and various other reasons. The result of this depletion is that nine vacancies exist at this time on the Committee; two voting members, four alternates, two EO Counselor positions, and one Federal Women's Coordinator position. Recruitment of members will need to have a higher priority for next fiscal year.

The EO Committee functions as a vital force in the effort of the management of GLCA to ensure equal opportunity issues are in compliance and actively pursued. With the cooperation of management and the EO Committee, staff at Glen Canyon NRA are trained, educated, and informed about the EO policies of the park, NPS, and the government. As a result, there are fewer EO complaints and grievances, and Glen Canyon NRA has a more productive work force operating in a more harmonious atmosphere.

#### **SAFETY/LOSS CONTROL**

Kimberly Layton arrived at Glen Canyon National Recreation Area (mid February 1999) as the park safety officer and took the following actions:

1. Assessment of the following programs.

- a. GLCA Bloodborne Pathogens
- b. GLCA Confined Space

- c. GLCA Emergency Action
- d. GLCA Hazard Communication
- e. GLCA Hearing Conservation
- f. GLCA Lockout/Tagout
- g. GLCA Respiratory Protection
- h. GLCA Safety

2. Employee interviews on the implementation of above programs.

3. Contacting the previous safety officer to identify which programs were written and their location.

Once the status of the overall Safety Program was determined, updating existing programs and writing the ones that were missing became the next step for insuring GLCA has an exemplary program. Once written, they were sent to each Division for review and comment.

Chemical Inventories were written for the different Divisions and at their various locations. An MSDS search has begun.

Another area of concern was the park medical, which had not been written. This contract covers physicals for law enforcement, fire fighters, and scuba divers and also supports blood borne pathogens, hearing conservation, and respiratory protection programs. A new contract was drawn with the same requirements as last year. Working with personnel and contracting, new standards and procedures were developed for the FY00 Medical Program. The new procedures should simplify the process.

New forms have been created and some old forms were resurrected to make the GLCA Safety Program complete.

### Training

The GLCA Safety Officer conducted training at the Regional Safety Officer Courses presented in Salt Lake City and Albuquerque.

Further training conducted by the Safety Officer was by request from several Divisions.

Training attended by the Safety Officer included a seminar on the Green Program for the National Park Service and Regional Safety Training in Salt Lake City.

In September of 1999, Alan Schroeder presented the Hazardous Material Technician Refresher Training for GLCA employees.

### Reviews/Inspections/Other Programs

The Concessioner Annual Review was conducted in September 1999.

The Safety Officer assisted Region with an inspection at Big Bend National Park.

The Lake Powell Water Safety Council was formed with a goal of growing to include the community and other agencies and businesses in Utah and

Arizona. It was formed by the Interpretive and Ranger Divisions with the idea of promoting Water Safety, not only on the Lake, but also while traveling to and from.

#### IV. INTERPRETATION

##### **FY99 Budget:**

|                                     |                 |
|-------------------------------------|-----------------|
| Administration of Interpretation    | \$ 77,000       |
| Downlake Interpretation             | \$ 284,300      |
| Uplake Interpretation               | \$ 123,000      |
| Water Quality Interpretation (ONPS) | \$ 28,000       |
| Lees Ferry Interpretation           | \$ 16,300       |
| Dangling Rope Interpretation        | \$ 53,400       |
| Rainbow Bridge Interpretation       | \$ 14,000       |
| Training                            | <u>\$ 7,400</u> |

|             |            |
|-------------|------------|
| TOTAL, ONPS | \$ 603,400 |
|-------------|------------|

|   |                  |
|---|------------------|
| Water Quality Interpretation (Fee Demo)     | \$ 37,200        |
| Science Education (AZ Community Foundation) | \$ 23,000        |
| National Park Foundation P.A.R.K.S.         | <u>\$ 10,000</u> |

|                      |           |
|----------------------|-----------|
| TOTAL, Other Sources | \$ 70,200 |
|----------------------|-----------|

|                                      |                   |
|--------------------------------------|-------------------|
| <b>TOTAL, ONPS and Other Sources</b> | <b>\$ 673,600</b> |
|--------------------------------------|-------------------|

##### **Staffing:**

7.8 permanent FTEs  
6.9 temporary FTEs  
14.7 total FTEs

##### **Visitor Contacts:**

|                                   |                  |
|-----------------------------------|------------------|
| Carl Hayden Visitor Center        | 908,632          |
| Navajo Bridge Interpretive Center | 50,332           |
| Bullfrog Visitor Center           | 8,422            |
| Rainbow Bridge formal talks       | 25,773           |
| Wahweap amphitheater program      | 8,456            |
| Defiance House                    | 9,501            |
| Petroglyph Panel                  | 6,543            |
| Roving assignments-general        | 138,854          |
| Roving-lake water quality         | 4,923            |
| Special events                    | 2,590            |
| School programs                   | 2,488            |
| <b>TOTAL CONTACTS</b>             | <b>1,166,514</b> |

##### **Visitor Centers:**

Carl Hayden Visitor Center at Glen Canyon Dam hosted 908,632 visitors during 1999. This is an all-time high, with nearly 45,000 more visitors than last year. Of those, 102,397 participated in guided tours of the Glen Canyon Dam, 43,554 viewed one of the automated audio-visual program, and 4,224 attended a ranger talk. Carl Hayden Visitor Center was open year-round, with the exception of Thanksgiving, Christmas, and New Year's Day, with extended hours (8 a.m. - 7 p.m.) mid-April through mid-October.



Bullfrog Visitor Center saw 8,422 people during FY99, a decline from the previous year. Bullfrog Visitor Center was closed all but weekends in November 1998, and reopened in April 1999 for 13 days. In May, the visitor center was open all but 9 days. From June through September, the visitor center averaged 3 closed days each month. The NPS still relies on the Glen Canyon Natural History Association to staff the visitor center. They continue to struggle in finding employees who can work the season entire needed and who also have housing. The visitor center retail operation still does not support itself but is critical in orienting park visitors within this subdistrict.

Navajo Bridge Interpretive Center hosted 50,332 visitors during FY99. The facility opened in mid-April and closed in mid-October. It was staffed 100% by Glen Canyon Natural History Association employees; 2 maintenance and 2 book store staff.

**Wahweap and Carl Hayden V.C. Subdistrict:** 2 permanent full-time rangers; 2 park guides (one vacant April-September); up to 14 seasonal employees (including 6 hired via STEP authority and 1 SCA)

- Daily visitor center coverage
- Daily launch ramp presence at 3 launch ramps (Wahweap and Stateline during the mornings only; Antelope Point beginning with its opening in July)
- Daily water quality patrols
- Daily developed and beach area roves
- 6 day/week evening programs
- 4-5 day/week joint Wilderness-NPS Colorado River
- 3-4 day/week Rainbow Bridge boat tours participation
- Intermittent/incidental staffing of Wahweap Ranger Station
- approximately 40 educational programs throughout the year

**Lees Ferry Subdistrict:** 2 seasonal employees, one who departed in June and was not replaced

- Daily roving at Navajo Bridge Interpretive Center, Paria Beach, launch ramp, Lonely Dell Ranch, Lees Ferry Fort, and the campground
- Fee collection duties consisting of routine short-term staffing of Lees Ferry Ranger Station to allow visitors to trade-in and trade-up passes
- Occasional evening programs (to little success)

**Dangling Rope/Rainbow Bridge Subdistrict:** 1 subject-to-furlough ranger (October - mid November; mid-February - September) and 2 seasonal employees

- Daily coverage at Rainbow Bridge. This operation was hampered this year by 2 things. (1) the lack of a 2<sup>nd</sup> boat devoted to the operation for much of the season and (2) a lack of visitor protection staff which impacted the interpretive operation since interpreters needed to respond to several EMS and other emergency situations, pulling them away from Rainbow Bridge interpretive duties

**Bullfrog Subdistrict:** 1 subject-to-furlough ranger (October; mid-January - September); 4 seasonals (including 1 SCA)

- 6 day/week water quality patrols; overnight patrols once/pay period; many patrols involved only interpreters which meant that twice as many interpreters as were programmed were involved in water quality patrols
- 4-5 day/week coverage at Defiance House
- intermittent launch ramp, beach, and developed area roving
- intermittent staffing of the Bullfrog Visitor Center
- occasional evening and education programs

**Hite Subdistrict:** 1 seasonal supplemented to a small degree on days off by a visitor use assistant

- daily beach and developed area roving, including fee compliance checks
- daily short-term staffing of ranger station
- occasional Colorado River/Dark Canyon water quality patrols

**Information Requests:** During FY99, visitor center staffs park-wide responded to 11,763 requests for information.

#### **Formal Education Programs:**

The *Field Science Partnership* between the Page Unified School District and the National Park Service at Glen Canyon National Recreation Area grew during FY99 beyond the 20+ students involved in continuing *e. coli*/fecal coliform and razorback/aquatic studies to include a 45+ 9<sup>th</sup> grade biology students in a grazing/plant ecology unit. The students continued the upgrade of their website, and offered age-appropriate educational programs to over 1,000 younger students. Funding for the program continued from the Arizona Community Foundation, and was supplemented by an Exxon/National Park Foundation P.A.R.K.S. grant. The position overseeing this program went from a term to a subject-to-furlough position.

Uplake, the *Education Enhancement Program* in association with the Lake Powell School continued with a fall program focussing on aquatic ecology and a spring program focussing on archeology.

**Lake Powell Pure** water quality boat patrols entered their third year of operation. Both uplake and downlake, the program was led by and duties almost-exclusively performed by interpretive staff, partly due to the difficulty the protection division encountered in hiring and scheduling seasonal rangers. This meant that twice the number of programmed interpreters were devoted to water quality efforts park-wide. Uplake, overnight patrols occurred once each pay period, with day patrols operating on other days. Downlake, only 2 overnight patrols occurred during the main visitor season. The reason for the change in operations was to more consistently contact people camping in the areas that were known from past seasons to have the greatest human waste problems--Wahweap, Warm Creek, and Padre bays, and Antelope Island. Implementation

of an arcview program downlake enabled campers to be tracked, and therefore contacted only once. Additionally, downlake staff assisted resource managers in counting human waste piles/sites on 3 "control" beaches downlake.

#### **Volunteer-In-Parks Program:**

Within Glen Canyon National Recreation Area and Rainbow Bridge National Monument, 195 volunteers donated a total of 12,639 hours. Notable donations include 3,920 hours donated by 92 Trash Tracker volunteers. Regional VIP funds in the amounts of \$4,500 and \$1,000 for Glen Canyon National Recreation Area and Rainbow Bridge National Monument, respectively, were used to support the volunteer program.

#### **Cooperating Association:**

The energies of the Glen Canyon Natural History Association were directed in large part this year towards the Carl Hayden Visitor Center and the Navajo Bridge Interpretive Center.

Gross FY99 sales at the three Glen Canyon Natural History Association outlets were:

|                                   |                   |
|-----------------------------------|-------------------|
| Carl Hayden Visitor Center        | \$ 312,488        |
| Bullfrog Visitor Center           | \$ 9,542          |
| Navajo Bridge Interpretive Center | <u>\$ 73,843</u>  |
| <b>Gross Revenues</b>             | <b>\$ 395,873</b> |

#### **Non-personal Interpretation:**

- The 4 new porcelain enamel exhibits anticipated for Rainbow Bridge were, upon receipt, returned to the fabricator. Exhibits at the monument were not available to the public from July - September due to the rehab of the floating exhibit dock.
- The "Waterpocket Fold" porcelain enamel exhibit was completed and installed in the spring at the Bullfrog Launch Ramp.
- The porcelain enamel exhibit for the Lees Ferry courtesy dock, "Remnant of a River" was in June.
- Companion porcelain enamel waysides entitled "Rock Art" and "House Rules for Visiting Archeological Sites" were installed at the petroglyph panel in August.
- "Glen Canyon Reflections," the recreation area's newspaper, expanded from 4 to 8 pages. Approximately 110,000 were distributed to visitors, bringing messages concerning *Lake Powell Pure*, boating and water safety, and resource protection.
- Additional Glen Canyon NRA and Rainbow Bridge NM official maps and guides were ordered through Harpers Ferry. This year's Glen Canyon map and guide included the publication's first digitized map.

**Interpretive Planning:**

- The first meetings relating to exhibit rehab for Carl Hayden Visitor Center were held in August with the Bureau of Reclamation, facilitated by an interpretive planner and an exhibit specialist from Harpers Ferry Center.
- The Long Range Interpretive Plan portion of the Rainbow Bridge Comprehensive Interpretive Plan was completed.

## VI. FACILITIES MANAGEMENT

### FUNDING AND SPECIAL PROJECTS

|  |                    |
|--|--------------------|
| ONPS funding GLCA & RABR allocation    | \$2,779,700        |
| Electrical Income                      | \$ 294,474         |
| Water/Sewer Income                     | \$ 606,471         |
| Housing Permanent (includes carryover) | \$ 334,984         |
| Housing Seasonal (includes carryover)  | \$ 53,644          |
|  | <u>\$4,069,273</u> |
| Comparison previous year (FY98)        | \$3,928,427        |

The following list consists of non-repetitive special projects that were accomplished by the division through day/labor or contracts in FY99:

|   |                     |
|---|---------------------|
| Wahweap Residential Sewer                             | \$ 75,000           |
| Antelope Point (SLIF)                                 | \$ 497,921          |
| Line item-Lone Rock water quality, design/contracting | \$ 853,390          |
| Line item-Implement LP water quality project          | \$ 779,000          |
| BF Backhoe  | \$ 54,860           |
| Inflatable Boat                                       | \$ 83,000           |
| WW Forklift   | \$ 21,316           |
| Antelope Point Fee Station                            | \$ 160,000          |
| WW Underground Storage Tank Cleanup                   | \$ 45,000           |
| Disposal Hazardous Waste                              | \$ 10,000           |
| Sewer Lift Station Backup Generators                  | \$ 310,100          |
| Hite Lagoon Upgrade                                   | \$ 420,500          |
| Lees Ferry Waterline                                  | \$ 367,700          |
| WW Sewer Lift Station                                 | \$ 492,300          |
| Halls Crossing Generator                              | \$ 60,000           |
| Sewerlines/Stations                                   | \$ 12,000           |
| Rainbow Bridge Walkway                                | \$ 19,500           |
| Rainbow Bridge Trails                                 | \$ 40,000           |
|   | <u>\$ 4,234,087</u> |

### WORK REQUESTS

|                                 |     |
|---------------------------------|-----|
| Total Work Requests FY99        | 202 |
| Total Work Request Backlog FY99 | 67  |
| % Of Work Request Completed     | 67% |

Work request backlog was originally higher this spring and summer due to the Downlake crew working on the Antelope Point opening, but the crew worked hard and is quickly completing the remaining work requests.

### CONCESSION SPECIAL ACCOUNTS PROJECTS

The Capital Improvement Account (CIA) collected \$1.65 million and expended \$1.74 million (includes carryover dollars).

*The Campground Improvement Fund (CIF) collected approximately \$66,000 and expended approximately \$83,000 (includes carryover dollars).*

The Construction Set-aside (CSA) fund collected \$4.46 million and expended \$1.41 million.

| PROJECTS COMPLETED IN FY99: |      |                                 |
|-----------------------------|------|---------------------------------|
| CIA                         | 9    | BF FIRE STATION                 |
| CIF                         | 5    | WA UPGRADE FOUNTAIN, DUMP, SINK |
| CIF                         | 6    | BF REPLACE GRILLS               |
| CIF                         | 10   | BF REPLACE PICNIC TABLES        |
| CSA                         | 32SL | LAKEWIDE UPGRADE BOAT PUMPOUTS  |
| CSA                         | 32UP | UPGRADE PUMPOUTS                |
| CSA                         | 54   | HI COMFORT STATION              |
| CSA                         | 56   | WA PARKING EXPANSION            |
| CSA                         | 60   | WA UNDERGROUND POWERLINES       |
| CSA                         | 67   | DR PHOTOVOLTAIC PROJECT         |
| CSA                         | 81   | HC TRANSFER STATION UPGRADE     |
| GIA                         | 1    | EXPAND DR PHOTOVOLTAIC          |

| PROJECTS UNDERWAY IN FY99: |     |                                     |
|----------------------------|-----|-------------------------------------|
| CIA                        | 1   | BF CONCESSIONER HOUSING MASTER PLAN |
| CIA                        | 2   | BF ELECTRICAL UPGRADE               |
| CIA                        | 3   | BF EXPAND INFRASTRUCTURE            |
| CIA                        | 6   | RAINBOW BRIDGE REPLACE RESTROOMS    |
| CIA                        | 8   | WA WELL NO. 4 REHABILITATION        |
| CIA                        | 11  | WA MARINA RESTROOMS                 |
| CIA                        | 14  | HI FIRE STATION                     |
| CIA                        | 16  | BF/HC INFRASTRUCTURE/HOUSEKEEPING   |
| CIA                        | 20  | WA MARINA FISHING DOCK              |
| CIF                        | 14  | HC REPLACE GRILLS                   |
| CIF                        | 17  | WA PRUNE HAZARDOUS TREES            |
| CSA                        | 23  | HI WATER & SEWER SYSTEM UPGRADES    |
| CSA                        | 31  | LAKE POWELL CLEAN WATER PROGRAM     |
| CSA                        | 32  | REHAB DR PUMPOUT                    |
| CSA                        | 32  | HITE UPGRADE BOAT PUMPOUTS          |
| CSA                        | 43  | WA FIRE STATION                     |
| CSA                        | 44  | UPLAKE ENTRANCE/DESTINATION SIGNAGE |
| CSA                        | 46  | BF & HC EXPAND COURTESY DOCKS       |
| CSA                        | 47  | WA CAMPGROUND REHABILITATION        |
| CSA                        | 48  | BF CAMPGROUND UPGRADE               |
| CSA                        | 53  | HC SEWER UPGRADE                    |
| CSA                        | 55  | HC MARINA & BOATER INFORMATION      |
| CSA                        | 57  | BF/HC ALTERNATIVE ENERGY            |
| CSA                        | 58  | PARKWIDE UTILITIES MAPPING          |
| CSA                        | 65A | BF LIFT STATION NO 4 & 5            |

|     |     |                                 |
|-----|-----|---------------------------------|
| CSA | 65B | BF/WA LIFT STATION UPGRADE      |
| CSA | 66  | DR DOCK WINCH UPGRADE           |
| CSA | 69  | BF BOAT READY AREA              |
| CSA | 70  | LAKEWIDE BREAKWATERS            |
| CSA | 77  | BF SLIPS PARKING LOT            |
| CSA | 78  | BF DEFIANCE HOUSE PARKING LOT   |
| CSA | 80  | WA WASTEWATER TREATMENT UPGRADE |

## **MAINTENANCE ACCOMPLISHMENTS**

### **Training**

Training for maintenance staff: pest control, hazmat, green purchase, handicap accessibility, building maintenance workshop, and masonry workshop, water/wastewater treatment, backflow certification, boat engine technical schools, Swift Water Rescue Class, EO counselor training, DOIMOC.

Staff attended regular safety meetings & required training sessions.

Staff provided instruction and assistance at DOIMOC and Regional Dive Seminar.

### **Uplake**

Came within 14 days of completing our fourth year without a lost time accident with a winch injury at Hite. Had only one other injury this year (foot bruise) and no vehicle accidents.

### **New equipment:**

RE-use Tractor to replace GMC  
Flat front-end loader for Hite (driftwood removal)  
New Case backhoe (replaced John Deere)  
Replace engine Ranger boat 213  
Replaced GSA trash truck at Hite. Rebuilt NPS compactor and installed camera system.

Still working with ARAMARK to complete the new courtesy docks at Bullfrog, with cleats and decking repairs. Installed reused docks at Halls Crossing and Hite.

Able to accomplish a heavy workload this summer despite being short 3 positions at Bullfrog and at one point down a total of 6 district-wide.

Completed District-wide Chemical inventory.

Employees received training in water, sewer, backflow prevention, fire and hazmat.

### **Bullfrog**

Developed a blueprint files record system.

Replaced waterline to Boat pumpout, installed float support for walkway, changed out pumps to sealed bearing type.

Completed Bullfrog shop upgrade and shop dust collection.

Striped fog line to boundary and fee area.

Graded and improved Stanton Creek road.

Installed new Utah Parks dock.

Accomplished beach cleanup with 250 bags of trash picked up in Crystal Springs, Bullfrog North and South, Stanton Creek, Halls Creek, Hansen Creek, Hansen, Forgotten Canyon.

Litter pickup in Bullfrog developed area totaled 200 bags.

#### Halls Crossing

Halls Crossing Generator sets #2 and #3 were rebuilt by Cummins. Purchased and installed controls for Generator sets to bring system in Y2K compliance.

Installed new motors on both pumps for Lift Station #2.

New climate controls installed in generator control room.

Installed new swamp cooler in shop and completed dust collection system.

Striped 10 miles of center and fog line and fee area.

Installed the new pressure tank/lake pump system for wash down on pumpout.

Installed new lines to boat pumpout.

Upgraded Muffin Monster to fish cutter teeth for fish cleaning station.

#### Hite

Completed dust collection in shop.

Built and installed two windsock poles.

Installed rehabilitated boat pumpout. Installed new pump motors (sealed bearings).

Dirty Devil camping area improvements included installing three pipe safes, a road system, four vault toilets, and a bulletin board. Several illegal accesses were closed and boulders were placed to define camping areas.

#### Downlake Building & Utilities



#### Antelope Point (with R&T crew)

Designed, built, and installed entrance station for Navajo Nation which included traffic islands, gates, flag poles, fence enclosure, electrical lines, electrical panels, propane lines, propane tank, generator and solar lights.

Dug and helped installed 4 vault toilets.

Build interpretive shade structure.

Poured concrete sidewalks and planter box.

Poured deadman for breakwater.

Installed new courtesy docks and ramps.

Installed solar parking lot lights.

Post & cable fence.

Installed breakwater, docks, and buoys, at Antelope Point.

#### Wahweap District Ranger's Office

Made repairs to holding facility at District Ranger's Office.

Installed vertical blinds in courtroom, Interpretation and Fee Collection offices).

Cleaned carpet twice and installed carpet in weight room.

Install new toilets, tile, and grab bar.

Start rehab of kitchen.

Tarred roof at over mechanical room.

#### Fee Collection

Made repairs to Hite ATM shade structure and modification to Lees Ferry ATM machine.

Built shade boxes for traffic counters at South, North and Lone Rock entrance stations.

Repair work to South entrance station #1 after houseboat damaged exterior wall.

#### Maintenance Shop

Rehabilitated R&T Supervisor's office (sheet rock walls, flooring, windows, a/c unit drop ceiling and build furniture).

Installed new a/c unit in sign shop.

Installed new radial arm saw in shop.

MSDS updates and gathering of info, hazmat disposal and inventory.

### Wahweap

Transported materials and helped with installation of 4 vault toilets at The Chains.

Repaired Dam Overlook wall: 75' of rock wall and cap stone.

Repaired leak and poured 10 yards of concrete at Main ramp restroom.

Poured concrete for local utility company during electrical service replacement.

Constructed map displays for dispatch and installed workstation in Interpretive suite at HQ.

Electrical upgrades at airport hanger, radio shop, warehouse and Navajo Bridge Visitor Center (new ballast and lighting).

Grounds work at amphitheater and picnic ground (removal of olive trees and planting of ash trees).

Completed AutoCad work for Rainbow Bridge shade structure and sewer project at Wahweap apartments.

Conducted survey work for engineers at sewage lagoons.

Sprayed trees for bag worms all areas.

Stucco applied to exterior of well house #2.

Rehabilitated water lab (paint, install shelves, water lines and electrical).

Removed trees, brush and trash behind WW114 apartments.

Sandblasted graffiti from sidewalk at Dam Overlook 3 times.

Routine janitorial duties at Wahweap and Carl Hayden Visitor Center, including litter pickup.

Cleaned out paint storage area and disposal of unwanted paints (hazmat).

Installed new energy efficient lights at Lees Ferry ranger station.

Planned out new motor protection for sewage lagoons.

Built and installed new sewage lift station controller.

### Utilities

Repaired leaking sewage force main at trailer village lift station (full confined space entry).

Repaired non-functioning intake valve at Sinclair lift station (full confined space entry).

Weed removal around water storage tanks and pressure pump house.

Weed removal at sewer lagoons.

Rehabilitated boiler rooms at shop and DRO.

Begin sewer lagoon testing for wetlands project.

Completed Consumer Confidence Report for water system quality and distributed to community.

Established new procedures for record keeping of all utilities, water, and wastewater.

Established SOP's for boat pumpout stations.

Removed sand around NPS housing propane tanks and repaired chain link fence.

Rehabilitated chlorine room at well #4.

Solid waste disposal of Dangling Rope trash barges.

Transport of Rainbow Bridge courtesy dock and walkways for contractor; welding and fabrication of Rainbow Bridge walkways.

Cleaning and rehab of plumbing shop, warehouse, and storage.

Installed water lines across Paria River at Lee's Ferry for irrigation of ranch house.

Pumped and disposal of sewage at Rainbow Bridge, Antelope Point, Chains, Lone Rock, Navajo Bridge Visitor Center.

Location of utilities for area master plans.

#### Dangling Rope/Rainbow Bridge

Worked on Rainbow Bridge walkways.

Installed new thermostats and time clocks on swamp coolers.

Installed power factor correction.

Painted exterior of maintenance shop.

Trenched and installed new phone system (housing).

Assisted in installation of solar array system and moved batteries.

Replaced broken window cranks and pulled nails in pouch and replaced with screws in housing.

## Housing

- Replaced wood fence at PG0001.
- Installed vertical blinds in PG0002.
- Major rehab to Page housing unit PG0003. This included the removal of old carpet, vinyl, vanities, sinks, termite infested walls in utility room and bath. Installed new vinyl (kitchen, dining room, utility room, baths) and carpet; replaced plumbing in utility and bath, drywalled; replaced kitchen sink, range hood, counter tops, medicine cabinets, vanities, sinks, marble tops, faucets, light fixtures, tub/enclosure; painted interior; installed fireplace mantel behind pellet stove. Work was done by contract and by Glen Canyon NRA Maintenance staff.
- Repaired electric furnace in PG0004.
- Replaced storm door and water heater element in PG0009.
- Built shelves for storage at PG0010.
- Painted interior, installed new vertical blinds in PG0011.
- Installed handicap accessibility equipment to bathroom at PG0013.
- Replaced box spring and mattress; replaced propane wall furnace in WW114A.
- Minor rehab in WW114C. Replaced vanity, top, sink and faucet, medicine cabinet; repaired ceiling texture and painted throughout; replaced range hood; replaced blinds.
- Replaced blind in WW114D.
- Replaced swamp coolers at WW114A, B, C, D.
- Minor repairs and interior painting in WW119A, WW119B, WW119C.
- Installed ceiling heaters; repaired ceiling after water line break in WW119D.
- Removed trees, brush, and trash behind WW114 apartments in preparation for sewer line replacement.
- Repaired propane furnaces in WW modulars.
- Removed wood stoves and installed pellet stoves in WW0115, WW0117, WW0118.
- Replaced swamp cooler at WW0117.
- Replaced old curtains with horizontal blinds and performed major cleaning in WW0125, WW0126.
- Replaced gas ranges in 2 seasonal units (WW0125 and WW0126)
- Replaced smoke detectors in several units.
- Removed WWMH22 AND WWMH23 (mobile homes) from park (surplus).
- Compete cleaning of WW0123 and 122 for seasonal housing needs.
- Purchased washer, dryer, dining table/chairs, bar stools, lamps, shades, mattresses, in LF206B (seasonal unit).
- Painted exterior of housing units at Dangling Rope.
- Repaired furnace in BF701A.
- Replaced counter top and formica in BF701A.
- Installed new swamp coolers on roofs at BF701A, BF701B and BF702A, BF702B. Repaired, underlayment, and re-shingled same units. Replaced rotted fascia trim.
- Repaired water damaged ceiling in dining room in BF701B.
- Removed non-working solar panels on 703B and installed new hot water heater.
- Major rehab to BF703B. This included the removal of old carpet and vinyl, kitchen cabinets, sinks, vanities, and commodes. Installed new carpet and vinyl floor covering (in bathrooms, kitchen, dining room, and

utility room). Kitchen cabinets were built and installed, sink, new appliances and a range hood. New vertical blinds were installed. All interior walls were painted. Installed medicine cabinets, vanities, tops, and fixtures, tub/shower door enclosure; replaced receptacles, light switches, wall plates, light fixtures, electrical work (breakers, wiring); doors, locks, bi-fold doors, screen doors; replaced windows; installed garage door opener.

--Replaced garage doors at 704A, 704B.

--Replaced underlayment and roof shingles on BF703A, BF703B, BF704A, and BF704B. Replaced rotted fascia trim.

--Installed new irrigation controls and heads 701A, 702B, 703B, 704A.

--Replaced carpet on front steps at BF0705, 706, 707, 709, 710, 711.

--Minor repairs and interior painting to BF0708, BF715A, BF715B.

--Replaced tub/shower combo in BF0708 and BF0713.

--Purchased 2 steam vacs to clean carpets Uplake.

--Replaced carbon monoxide detectors.

--Replaced counter top and formica in HC0001.

--Rehab in HC0002. Removed old carpet and vinyl; new underlayment in both baths and kitchen; sheetrocked living room wall, primed and painted wall; repaired and painted living and dining room ceiling; removed old countertops and installed new countertops, new bath sinks; replaced damaged and missing trim; installed window coverings, replaced all screens; installed vinyl in kitchen, baths; installed new carpet throughout (contractor).

--Installed new carpet in HC0004.

--Purchased supplies for wood fence at HC0004 to be built by occupant.

--Replaced molding, casing, door stops in HC modular units.

--Replaced kitchen faucets in HC modular units.

General maintenance repair and/or replacement projects at various residences: appliances, garbage disposals, solar hot water heaters, sprinkler systems, landscaping, fence repair, swamp cooler repairs, pellet stove repairs, doors, windows, window screens, storm doors, drainage and water systems, light fixture problems, bathroom and kitchen fixtures, sinks, faucets, etc. Also, pest control measures were implemented where and when necessary to assure all problems were resolved to the greatest extent.

### **Roads and Trails**

Patched asphalt - Lake Shore Dr.

Crack seal - S. Line Park Lot, N. Entrance Road.

Slick Rock Ruins Rehabilitation Project .

Sandblast Nudget paint.

Install Rainbow Bridge trail & shade structure.

Built fence around sewer lagoons.

Clean up flood mud on Lake Shore Dr.

Built up roads around sewer lagoon.

Grade Hans Flat trails (roads).

Environmental clean up - Chains (creosote & hazardous iron).

Petroglyph Trail & steps.

Cleaned trash out of underneath Lees Ferry Bridge.

Dry water crossing By Lake Powell Motel.

Construct DRO parking lot (behind building).

Weed & brush removal - Stateline & Swim Beach.

Repair flood damage at Lone Rock.

Hauled propane, equipment, materials, & contractors with barge.

Hauled base course to Beer Can Hill & Chains road.

Helped repair broken waterline - Dangling Rope.

Disposed of RCRA - non-RCRA waste.

#### Sign Shop

Fishing Dock for combined agencies.

Replaced worn out signs at Lee's Ferry.

Exhibit signs at Visitor Center.

Road work at Antelope Point.

Signs for Antelope Point.

Trail & step work at Petroglyphs at Lee's Ferry.

Everyday fabrication or installing of signs.

#### Aids To Navigation/Dive Team

Maintained all navigational aids in Glen Canyon National Recreation Area.

Paint and repair hull of boat 450.

Repair and reorganize Government Dock Wahweap.

Install Air Compressor and storage banks at Dangling Rope.

Completed Concession Dive inspection at WW, SL, DR, HC, BF.

Assist with ground penetrating radar in Antelope Canyon.

Assist with homicide investigation Bullfrog Marina.

#### Auto Shop

Rehab/repair 9 vehicles from excess property.

Major repair of road broom.

Routine maintenance, repair, and servicing of all Glen Canyon vehicles and equipment.

Reduction in Hazmat waste.

#### Boat Shop

Inventory and upgrade of special tools used for outboard and stern drive maintenance.

Established a parts room inventory and stocking procedure.

Air intake rework and running gear repair to boat 250.

Corrected ventilation problems on Boat 242, 254, 273 (safety related item).

Boat 450 routine maintenance plus research into engine reliability problems; plan ventilation, instrumentation and operating procedures changes.

Upgrade batteries for the fireboat; design and install a battery charging system.

6 engine re-power/replacements were performed on patrol boats.

#### Planning

Completed the Grazing Component (Plan) for GLCA): This grazing plan supplements the 1979 General Management Plan and completes a required resources management effort. Completed the NEPA public review of the grazing plan in 1999, and received Regional approval for the FONSI July 1999.

Revised the section on Vessel/Vehicle Maintenance and Repair in the Superintendent's Compendium.

Initiated the PWC (a.k.a. Lake Powell Management Plan) contract for a Visitor Survey regarding visitor perceptions and future expectations for Lake Powell and the management of PWC's (and more) to address changing social and carrying capacity issues.

#### Compliance

Twenty-four projects were initiated and cleared through this process this FY.

Provided landscape, maintenance, and pruning standards for the Bullfrog and Wahweap campgrounds.

Completed or reviewed the following Environmental Documents (NEPA):

Lake Powell Water Quality Enhancement for Lone Rock

Lake Powell Accessible Shoreline EA (Line Item Funded) for 6 vehicle-accessible shoreline beach camping areas.

Final EIS on the Bureau of Land Management's - General Management Plan for the Grand Staircase/Escalante National Monument

Grand Canyon and Zion NP transportation proposals

Grand Canyon NP - Development of Light Rail Train (People Mover) System

Special Use Permits:

\* TERM-GLCA-Tele-001 - Beehive Telephone, Inc.; Dangling Rope pay phone and Bullfrog Telecommunications Site (TERM-GLCA-Tele-005).

\* TERM-GLCA-9500-002 - Page Electric Utility; for electrical distribution system and associated facilities.

\* RMR-GLCA-TELE-007 - Citizens Communications, for telephone communications system at Bullfrog, Halls Crossing, \*RMR-GLCA-TLE-009, and RMR-GLCA-TELE-008 for Hite.

\* TERM-GLCA-9500-002 - Page Electric Utility; Electrical Distribution system and associated facilities.

\* A Right-of-Way was begun for Phonetel Technologies, for two pay telephones at Lees Ferry, Arizona. Pending application return and submission of agreement, signed ROW, and Application Fee.

Completed monitoring of all current SUPs.

Completed Restoration requirements for the following project disturbances:

Bullfrog South, Farley Canyon and Dirty Devil Accessible Shoreline Sites.

Hite Helipad

Bullfrog Electric distribution line replacement

Bullfrog Backup Generator installation

Lees Ferry Dedicated Water pipeline route

Lees Ferry Storm Drainage Repair

Wahweap Employee Housing Sewer Replacement



### III. CONCESSIONS MANAGEMENT

The fiscal year began with the passage of the National Park Service Concessions Management Improvement Act of 1998. Some highlights of things that will be different as a result of this legislation include:

- Revised method of compensation to concessioners for their interest in capital improvements.
- Right of preference in renewal is eliminated for non-outfitter concessioners that report over \$500,000 in gross receipts annually.
- Revised methods to evaluate proposals/offers.
- Authority to enter into short-term, non-competitive authorizations
- Ability to retain 80% of franchise fee payments at the field level. 20% fund established for needs in areas where no revenue is generated through franchise fees.
- Elimination of authority to require concessioners to establish special accounts for improvement to government and concessioner improvements.
- Ability to establish maintenance reserve account.
- Establishment of an Advisory Board to help develop and manage the program.

Regulations for concessions contracting were published in draft for comment in FY99 and are anticipated to be published in final in March 2000.

#### Division Personnel

In FY99 the Concessions Division lost half of its staff. Bill Miles accepted a position with the Bureau of Reclamation in Phoenix and Lee Shenk, the division chief, accepted a position back home in San Francisco. Beginning in July, Kathy Fleming from the Denver Support Office filled in behind Lee on a detail. The position was advertised and Kathy was selected to permanently fill the position, beginning in October. The Concession Specialist vacancy was not filled during FY99 due to the other changes in staff. In January 1999, Valerie Hunter became the first Concessions Assistant in the division to manage the Incidental Business Permit program full-time. With that change and through the secretarial pool, we welcomed Susie Perkins as our part-time Secretary. Mary Lou Douglas continues to manage the uplake program and also performed many duties of the vacant specialist and chief position during the vacancy and transition and accomplished the requirements of the evaluation and rate programs lakewide this year. John Gabele accepted the seasonal sanitarian position, which is funded by the Public Health Service. John occupied the position from April through September, and provided support to Zion, Bryce and Mesa Verde National Parks during the summer.

#### Incidental Business Permit Program:

The general IBP meeting held in Page, Arizona, has become an annual event and was held in February. Due to the changes in concessions staff, no formal meeting was held with the backcountry operators or the fishing guides at Lees Ferry. The Concessions Assistant and Seasonal Sanitarian met individually with a few operators to gain insight into what's

involved with their services and clarify specific issues. This was an educational opportunity especially where food preparation and public health issues were a concern. The park's seasonal sanitarian worked with a number of backcountry and fishing guide IBP's to review and make recommendations on their food handling and other sanitation practices.

The annual cost for an IBP remained at \$300 for renewal. The non-refundable application charge remained at \$125. Due to pending new regulations, no changes were made in the management of the IBP program. Although full cost recovery is not yet met, the salary of the full-time Concessions Assistant was covered by the income from the program in FY99. Total FY99 income from IBP's was \$38,650. Current rates are: \$125 non-refundable application/re-application cost; \$300 renewal/administrative cost

From October 1, 1998 through September 30, 1999, 121 IBP's were issued. There were 26 new permit applications, 95 renewals for the following services:

- Incidental Boat Repair - 36
- Boat Caretaking - 23
- Launch, Retrieval, Boat hauling - 23
- Fishing Guide Service - 17
- Guided Backcountry Hiking Tours - 10
- SCUBA - 3
- Land Transportation - 1
- Kayak - 4
- Water Ski/Wakeboard Instruction - 2
- Hunting - 3

Monitoring in the Wahweap area as well as occasional monitoring at Antelope Point was accomplished on a regular basis during the operating season in FY99.

The Incidental Permit provisions and requirements are being reviewed for each service and updated as necessary with input provided by all divisions in the park.

The National Park Service Concessions Management Improvement Act of 1998 provided specific authority for the first time for the National Park Service to manage the program for small, incidental business needs. Regulations for this section of the legislation are still being drafted. The program will continue to function under the Special Parks Uses authority until regulations are finalized.

#### Antelope Point Resort And Marina Concession Contract

Joint efforts with the Navajo Nation have resulted in the selection of five qualified bidders for Phase II of the selection process for the development and operation of Antelope Point. In April 1999, a panel provided the senior representatives with recommendations to accept four offers as responsive to the requirements set forth in the Phase I solicitation. After allowing clarification to all offers which were considered non-responsive by the panel, one bidder sufficiently clarified

information to the National Park Service and Navajo Nation's satisfaction. The five qualified bidders are:

- ❖ ARAMARK Leisure Services, Inc.
- ❖ Delaware North Sports and Leisure
- ❖ EMF, Inc.
- ❖ Forever Resorts, L.L.C.
- ❖ KOA Kampgrounds, Inc

Work has continued on prospectus documents and primarily the Business Site Lease and the Concession Contract. The contract is in the new standard language format, and the offer package elements follow the legislation. We anticipate that during FY2000 the package will be issued and a developer selected.

Assistance provided by the WASO Solicitor's Office and Lars Hanslin and the good working relationships between all parties have been critical in developing the requirements and documents. The relationship the National Park Service has with the Navajo Nation is strong and the team members continue to work towards the common goal of selecting a developer.

#### Concession Authorizations/Concessioners

Current Concessions Contracts and Concessions Permits in effect are as follows:

| Name   | Concid#           | Contract#            | Exp.Date   |
|--|-------------------|----------------------|------------|
| Wahweap Lodge & Marina, Inc                  | GLCA003           | CC-GLCA003-69        | 12/31/2000 |
| <b>VI. Uplake Resorts &amp; Marinas, Inc</b> | <b>GLCA002</b>    | <b>CC-GLCA002-88</b> |            |
|  | <b>12/31/2007</b> |                      |            |
| Wilderness River Adven, Inc                  | GLCA001           | CC-GLCA001-93        | 12/31/2000 |
| AZ Dept. of Economic Security                | GLCA017           | CC-GLCA017-95        | 12/31/2000 |
| Page Hospital                                | GLCA021           | CP-GLCA021-94        | 12/31/2000 |
| High Desert Adventures                       | GLCA020           | CP-GLCA020-95        | 12/31/2000 |

Expiration dates for the authorizations with Wilderness River Adventures (GLCA001), ARAMARK-Uplake (GLCA002), Page Hospital-Bullfrog Clinic (GLCA021), High Desert Adventure (GLCA020), and ARAMARK-Wahweap/Downlake (GLCA003) were amended through 12/31/2000 to allow the National Park Service to develop regulations and standard contract language and prospectus elements as a result of the passage of the National Park Service Concession Management Improvement Act of 1998.

#### Concessioners

ARAMARK Sports And Entertainment Services, Inc. d.b.a. Lake Powell Resorts And Marinas-Uplake, CC-GLCA002-88.

The Concessioner has satisfactorily fulfilled the requirements of the Contract and other provisions outlined in amendments and exhibits to the Contract.

Towards the end of the season, the National Park Service received inordinate amount of complaints related to the uplake operations. There were numerous complaint letters regarding the houseboat operations,

specifically the condition of the older rental houseboats, and some complaints regarded the attitude of the employees working at the lodge located at Bullfrog. Other complaints received related to the information provided through the Central Reservation system in Phoenix. We are encouraging ARAMARK to improve the customer service standards for this function through the Annual Evaluation for FY99. Management has hired a new uplake Lodge Manager and steps have been taken to remove or transfer those employees that were not able to deal with the visiting public in a satisfactory manner.

ARAMARK has shown an overall commitment to increase their management staff. They have hired Nick Miranda as Manager of the lodge complex, Louise Genga as the Assistant Manager at the marina store and Susie Burge as Assistant Manager at boat rentals in an effort to give better customer service to the visitor. All three of these employees have made marked improvements in employee attitude and service. A new Food and Beverage Manager and new Housing Coordinator will be hired for the new season.

The long-term trailer village continues to improve in overall appearance. Personnel continue to be very cooperative in correcting any deficiencies in that area. The Hite area received a new General Manager in Tim Dority. He has been a great asset to the area coming with some new ideas for changes that will better serve the visitor. His wife Deana Dority has taken over as the land based store and the dry storage area. The overall operation of Halls Crossing went very smoothly again this operating season under the direction of General Manager Dan Resmondo. Few complaints were received regarding this operation. Slip customers met with ARAMARK and park management to address some of their specific concerns.

There were a few tragic events that happened during the season, i.e., the death of an employee and subsequent first degree murder charges against another employee and the attempted rape of an employee. ARAMARK has renewed their commitment to hiring a seasonal staff that will convey a friendly, helpful attitude with strong customer service standards.

The John Atlantic Burr ferry service between Halls Crossing and Bullfrog continues to offer a much needed service for the visitor and employees of the area. Plans are in effect to build a second ferry to be located on the Bullfrog side of the lake. Utah Department of Transportation has let a contract; with the new ferry being built and put together starting the end of the year 2000 for operation in 2001. This will allow visitors and employees to get to each side of the lake without having to wait two hours between each trip.

As required by the contract, work continues on the uplake fee reconsideration. The fee reconsideration will consider the financial impact on any maintenance associated with additional facilities.

#### **Special Accounts and Development Program (Uplake)**

ARAMARK has continued their professional approach to the construction program required of them. They work well with the park professional staff and have been superior in meeting the accounting and reporting requirements that are critical to the success of these programs.

For a complete listing of uplake and downlake special account projects, completed and underway, see the Facilities section of this report.

#### **Other Capital Projects:**

##### Proposed

Halls Crossing City Center

##### In-Progress

Master Development Plan for Bullfrog, Halls Crossing and Hite

E81-99-001 Lakewide Oil Dispensing

E81-99-008 Lakewide Communication Extension

E87-98-007 Bullfrog Covered Slip Expansion

##### Completed

E18-95-011 Halls Crossing New Small Boat Rental Dock

E82-97-025 Hite Propane Tank Upgrade

E82-98-006 Hite Generator Upgrade

E84-97-013 Halls Crossing Battery Charging Enclosure

E84-97-021 Halls Crossing Pumpout Enclosure

E84-97-022 Halls Crossing Boat Rental Storage

E84-97-012 Halls Crossing Anchors at Covered Slips

E84-98-001 Halls Crossing Electrical Upgrade

E84-98-015 Halls Crossing Buoy Field Expansion

E84-99-009 Halls Crossing Employee Housing Rock Project

E87-97-004 Bullfrog Fuel Manifold Box/Line

E87-97-008 Bullfrog Buoy Field Expansion

E87-97-010 Halls Crossing Buoy Field Expansion

E87-97-016 Bullfrog Buffet

E87-98-002 Bullfrog Houseboat Docks

E87-98-013 Bullfrog Marina Store Landscaping

E87-98-014 Bullfrog Sandblast Pad

#### **ARAMARK Sports And Entertainment Services, Inc. d.b.a. Lake Powell Resorts And Marina, CC-GLCA003-69 (Downlake)**

The operations for Wahweap and Dangling Rope Marinas were rated satisfactory during the 1999-operating year.

The Concessioner has satisfactorily fulfilled the requirements of the Contract and other provisions outlined in amendments and exhibits to the Contract. The annual safety review of the Concessioner's Risk Management Program was conducted in accordance with NPS-48 regulations. Continuous communication occurred between ARAMARK's Safety Managers regarding accident investigations, hazardous material response, various safety programs, and environmental issues. The level of sanitation in the facilities and special operations was very good. There is a conscientious level of training for employees with excellent day-to-day supervision.

As we wait for new regulations to be finalized, needed updates and changes to the prospectus issued in 1997 are being tracked. The renewal of this contract is a top priority in the program as directed by the Secretary and Director. The National Park Service will finalize and publish the package when the new contract language is approved

In the meantime, ARAMARK continues to cooperate with the National Park Service in moving forward with improvements to operations and facilities. The downlake operation under the leadership of Pat Goss continues to provide a quality experience and fine service to the visitor. New additions to the management team have had a positive effect on customer service. We received very few complaints related specific to the Downlake operations this year. The merchandise operations were outstanding this past year. Clay Ann Cook has participated in the layout and merchandise ordering for all operations on the lake.

The annual underwater dive inspections were conducted this year in accordance with the Memorandum of Understanding. The results of these inspections are incorporated into the annual evaluations of the concession operations.

#### **Special Account and Development Program (Downlake)**

##### **Other Capital Projects**

###### In-Progress

|            |  |
|------------|--|
| E81-99-002 | Stateline Fuel Flex Lines                            |
| E81-99-001 | Lakewide Oil Dispensers (Stateline portion complete) |
| E81-99-005 | Wahweap Espresso Machine Cart                        |
| E81-99-007 | Wahweap Marina Restroom Remodel                      |
| E81-99-008 | Lakewide Communication Extension                     |

###### Completed

|            |                                      |
|------------|--------------------------------------|
| E81-99-003 | Stateline Covered Dock Storage       |
| E81-99-006 | Wahweap ADA Restroom/Contact Station |

#### **Page Hospital, CP-GLCA021-94**

Page Hospital a division of Samaritan Health Systems operates the clinic at Bullfrog.

The clinic's operating season started May 3, 1999 and continued until October 11, 1999. The operation of the Bullfrog Clinic by Samaritan Health Services was rated as satisfactory during 1999. This permit was extended until December 31, 1999. During the year Samaritan Health merged with Lutheran Medical Centers and are now Banner Health Systems. In consultation with the regional office, the National Park Service will continue to administer the permit as a contractual arrangement with Page Hospital regardless of the corporate structure.

During the course of the 164 days the clinic was open, the Physician's Assistants (PA) and office staff checked in 1236 patients compared to 1281 patients in 1998. This is a decrease of 45 patients.

The staff continues to provide quality health care to the recreation area visitors despite the operating difficulties inherent in remote area operations. The operation was run professionally by the medical provider that rotated a small number of different PAs during the course of the season.

The staff continues to work well in coordination efforts with several medical evacuation companies and the National Park Service when evacuations were warranted. This year there were 24 helicopter evacuations, 6 fixed wing evacuations and 37 individuals that had to seek further medical assistance, mostly for X-ray, by personal vehicle. There were 170 after hour call-outs during the season; this is an increase of 16 over the 1998 season. The month of July continues to have the highest number of patients to date with the Clinic staff seeing 321 patients during a total of 31 days.

The permit has been extended allowing time for the new language to be approved and the development of the contract documents.

The following is a breakdown of number of patients for the term of the current permit:

|             | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|-------------|------|------|------|------|------|------|------|
| Patients    | 617  | 709  | 948  | 1002 | 1201 | 1281 | 1236 |
| Days Open   | 136  | 158  | 154  | 160  | 164  | 164  | 164  |
| Avg. Pt/Day | 4.2  | 4.5  | 4.49 | 6.16 | 7.33 | 7.81 | 7.5  |

The concessioner is to be commended for the effort put forth in continuing to accommodate the residential communities of Bullfrog, Halls Crossing and Hite in allowing San Juan County Mobile Van to offer mammograms at reduced rates. In addition, the staff did an outstanding job during the health fair that was offered to local residents at the end of the season.

There were no written or verbal complaints received in regard to the clinic operation or staff performance.

The National Park Service will be contacting the concessioner to discuss the possibility of changing the Physicians Assistant's residence in Bullfrog from a 3-bedroom unit to a 2-bedroom unit to help alleviate some of the housing shortage.

**ARAMARK Sports And Entertainment Service, Inc., d.b.a. Wilderness River Adventures, CC-GLCA001-93**

The floating raft trips from the Glen Canyon Dam to Lees Ferry, provided by Wilderness River Adventures (WRA), were satisfactory during the 1999-operating season. An NPS PHS officer conducted two Public Health Service (PHS) inspections for the 1999-operating season. The lunch served to the visitors consists of a variety of cold meats, cheeses, salads, etc. The food is transported on-ice from the commissary and a temperature log is kept to assure proper holding temperatures before serving begins. The operation is very clean and well monitored during the customer self-serve process. This operation was satisfactory during both inspections.

The Management and staff of WRA are to be commended for their continued outstanding service provided to the National Park Service (NPS) and the visitor. WRA provides assistance to the National Park Service for river clean-up, emergency response (fire), maintenance of the restroom facilities, and equipment transportation.

A total of 37,206 passengers on 964 trips enjoyed passage on the guided river trips through Glen Canyon to Lees Ferry. There were 7,167 less

passengers than the 1998-operating season, however the number of trips increased by 158.

The NPS was glad to see the training trips return using the expertise of many NPS employees to explain not only the background of the National Park System, but the history of the area, sharing geological information and giving the guides, old and new a chance to ask questions so they are much better prepared for informing the visitor. We hope it continues in the future, and if the training trips need to be done more than once a season we would be more than happy to arrange more trips.

Standard procedure is for WRA to accompany all visitors to the petroglyph site, educate them on its historical significance, and the need to preserve and protect not only this site, but also all of our nations cultural and natural resources. The NPS would like to see WRA instill in all of the guides and assistants the importance of relaying a true message of the area, whether it is on the water or at the interpretive panel during the lunch stop.

This contract provides the largest source of revenue authorized by P.L. 105-391 to the park through concession franchise fees. Anticipated annual revenue is estimated to be \$140,000. These funds are being retained at the park beginning in fiscal year 1999.

This contract was also extended through December of 2000 to allow for implementation of new legislation.

**Arizona Department Of Economic Security d.b.a. Zyla's Dam Shop, CP-GLCA017-95**

The services provided by the Visitor Center Gift Shop during the 1999 operating season were satisfactory. Zyla Cox has taken over as the operator of the gift shop and has made great strides in ordering a better quality of merchandise. She has rearranged some of the smaller merchandise displays making a better flow pattern in the small shop. Arrangements have been made to have new display cases installed during the time period that the shop is closed this winter.

The selection of Native American handcraft items on display continues to be an acceptable representation of the local Native American culture and talent. The former downlake Concessions Management Specialist worked with Zyla, doing a safety inspection and program review. The Bureau of Reclamation Safety Program also covers the shop, Zyla's Dam Shop. The fire extinguishers, Chemical Hazard Communication Program, and Safety Inspection Program are conducted by the BOR and noted to be in compliance with OSHA regulations.

**Summary**

In general, it has been of year of change in the concessions program servicewide and at Glen Canyon National Recreation Area. The coming year promises to be full of new challenges and adventures.



## VII. RESOURCE MANAGEMENT

During FY99 Kevin Berghoff transferred to the National Weather Service. Mark Anderson replaced him, providing oversight to the water quality program. There were substantial changes in project TERM appointment personnel. Tim Burchett transferred to Pecos NM and his archeologist position was not refilled. As a result, the park archeologist's position description was redescribed (position now has program responsibilities) and sent to Personnel for review. Tom Haberle, invasive weeds specialist left. Jennifer Holmes joined the staff to provide the lead for the Colorado River studies.

Resource Chief Ritenour was on the NPS Cooperative Ecosystem Study Unit (CESU) committee. The process was completed in FY99 and Ron Hiebert was selected for the first CESU at NAU. Initial annual work planning was initiated. This will provide a tremendous opportunity for Colorado Plateau parks to access cost effective university research and management review from universities throughout the Plateau and elsewhere and to create interagency and NGO partnerships.

Hearings and compliance review activities took place regarding reactivation of the Shootering Uranium Mill near Bullfrog. Plateau Resources has initiated permit requests to restart the mill and serve a 400-mile radius area processing uranium and uranium wastes. The permitting process has one more step and then mill operations will begin if the price of uranium makes it economically viable.

Studies for the lake recreation plan, which would also address personal watercraft use, were started. An artificial light guideline was drafted. Sound management and air tour management planning were not started, as legislation did not get passed. Statistics and maps reflecting Glen Canyon NRA recommended wilderness were prepared for congressional hearings.

### FY99 Budget

|                    |   |
|--------------------|---|
| \$ 632,400         | ONPS Park resource management                     |
| 50,000             | Cultural site preservation                        |
| 45,000             | Vanishing Treasures - Mistake Alcove              |
| 10,000             | Vanishing Treasures - High Boy Assessment         |
| 60,000             | I&M Avian Inventory                               |
| 16,200             | Tamarisk Control - Coyote Gulch                   |
| 3,800              | Tamarisk Control - Rainbow Bridge                 |
| 16,000             | NAGPRA - Inadvertent Discovery MOU                |
| 34,200             | Fee demo - Water Quality                          |
| 35,000             | Cultural monitoring, dam to Lees Ferry            |
| 80,900             | Riparian studies - Colorado River                 |
| 25,700             | GIS Lake contours                                 |
| 10,000             | Logistical support - Lake monitoring              |
| 5,000              | Inflow studies support                            |
| 51,000             | Lees Ferry/Lonely Dell Historic Structures Report |
| <u>\$1,091,200</u> |   |

AQUATIC RESOURCES (WATER QUALITY)

## **Bacterial Monitoring**

The Bacterial Monitoring Component of the Water Quality Program continued in 1999 from mid May to early September. Glen Canyon NRA continues to partner with the Utah and Arizona Departments of Environmental Quality in the Strategic Plan to Protect Water Quality at Lake Powell. The Resource Management Division continues to participate in the Lake Powell Technical Advisory Committee, which monitors field and lab procedures and recommends technical advice and changes.

A total of 38 sites were sampled lakewide every two weeks during the 1999 season. The number of sample sites was reduced from 42 sites in 1998. There were no new sites added in 1999. The four sites that were dropped did not have a single high count that exceeded standards in the past three years and were not deemed to be heavy visitor use areas. At least one randomly selected beach was sampled on each of the sample runs from both the Wahweap and Bullfrog Labs. This was the first experimental usage of an Arc View GIS Project to randomly select beaches.

Two NPS labs continued to operate during the 1999 season, one uplake at Bullfrog and one downlake at Wahweap. Both labs have maintained certification for environmental testing through the Utah Department of Health Lab Services. The Quality Assurance Project Plan and Standard Operating Procedures for Glen Canyon NRA Water Quality Labs was revised and approved in April for the 1999 sampling season.

There were a total of 674 water samples analyzed for fecal coliform and/or *E. coli* during the 1999 season. There were 14 counts that exceeded the maximum allowable limit resulting in 14 resample events at 11 different locations. There was one beach closure during the 1999 season. Oak Canyon was closed to swimming from July 23rd through July 27th. Visitors in the area reported witnessing an illegal porta-potty dump on July 21st.

## **Field Science Partnership-Bacterial Monitoring:**

Advanced biology students from the Page High School biology class test local beaches along Lake Powell, evaluating the collected water for total coliform and *E. coli* levels. Their experiment is designed to show relationships, if they exist, in coliform levels when comparing depth and sediment load. Students educate the community and other students on how and why beach closures occur and the meaning of the presence of indicator organisms.

## **Limnology:**

The Aquatics Program, in cooperation with Grand Canyon Monitoring and Research Center (GCMRC), has continued to collect physical, chemical, and biological data. The profiles were done at 20 to 25 established stations along the main stem of the Colorado River Channel, above and below the dam, Escalante River, and San Juan River throughout 1999. The focus of the program is to assess the impacts of dam operations on water quality resources in Lake Powell. In addition, three Hydrolab datasondes located between the dam and Lees Ferry were calibrated and maintained on a monthly basis.

Glen Canyon NRA coordinated efforts for EPA and USGS researchers to gather baseline water quality data and initiated development of a Side Canyon Study proposal.

### **Fisheries:**

The Aquatics Program, in cooperation with the Bureau of Reclamation, USGS Biological Resource Division, and Utah Division of Wildlife Resources, is continuing to study the inflow and transition zones of the lake. The goal of this study is to examine changes in nutrients, productivity (chlorophyll, phytoplankton, zooplankton, fish), and interflow characteristics from the inflow delta of the reservoir to a distance of about 20km downstream. Sampling occurred once monthly from May through October.

A fisherman caught a Colorado pike minnow at Bullfrog. Researchers captured two pike minnow and five razorback suckers in the San Juan inflow area.

Of the original 294 razorback suckers reared in Lake Powell National Golf Course Ponds 153 were re-introduced into the Colorado River Basin in the San Juan River in 1997 and 1998. Three out of 153 fish re-introduced were located in Glen Canyon National Recreation Area near Piute Farms in 1999.

A second population of 100 razorback suckers, from the 1998 year class, were stocked into the ponds in December of 1998. These fish are now part of the Upper Basin's backup brood stock for Green River, Utah and will be monitored until such time as they are no longer needed as backup brood stock and can be stocked in the wild.

Advanced Biology students from Page High School continue to routinely monitor water quality, fish growth and health, and harvest fish for stocking. A National Park Service student-employee from the class is currently working on completing a spatial database containing all of the data collected at the ponds using ArcView. This data will allow students to monitor pond trends and provide important information for maintaining the golf course ponds as a viable grow out facility. The students share their knowledge and experience with professionals, community groups, and other students generating community support, positive feelings, and public education in helping to save and understand an endangered species. Glen Canyon NRA's Science Education Specialist coordinates the research done with the teacher and students.

### **Entomology:**

The aquatic staff continued to collect benthic macroinvertebrate samples at the inflow areas of the Escalante and San Juan Rivers. The samples were identified by the BLM Aquatic Ecosystem Laboratory in Logan, Utah and a report was submitted to Glen Canyon NRA in 1999. In addition, personnel from the BLM Lab are also collecting baseline data in Glen Canyon NRA.

### **Exotic Species:**

Integrated Pest Management Plan: The IPM plan is in the developmental stages. Various sections have been compiled and are in the draft stage.

Zebra Mussel Prevention Program: The State of Utah formed an Aquatic Nuisance Species Action Team (UANSAT) to coordinate protection of Utah's waters from

exotic species. All waters of Utah are at risk; however, Lake Powell is considered the most likely port of entry because of Glen Canyon NRA's 2.5 million yearly visitors.

A Zebra Mussel Prevention Program was initiated to gather information about the number of boats arriving in Glen Canyon NRA directly from infested areas. In 1998, approximately 70 boats entered that were registered in states currently identified as being infested with Zebra Mussels. A more comprehensive data gathering procedure was initiated in 1999. Fourteen boats came directly from infested states. Our data collection efforts need more emphasis. Additionally, a voluntary boat-cleaning program has been developed. Park staff has assisted The UANSAT in MOU development, sign and brochure design, distribution of educational material at fee collecting stations, and the development of a prevention strategy within the State of Utah. Glen Canyon NRA received 30,000 brochures from the UANSAT for distribution at entrance stations this year. A monitoring program has been put into place at Glen Canyon. Ten percent of the aids to navigation (buoys) are inspected annually for mussels. There were no Zebra Mussels found in the lake in 1999. With the recent signing of the Executive Order on Invasive Species (Feb 3, 1999) an increase in prevention initiatives and available resources are expected.

#### **Lake Powell Cooperators:**

The first meeting of the 12 cooperators and interested parties took place in Salt Lake City, Utah. Per the MOU establishing the organization, a data management committee was formed with a Jerry Miller (BOR) as chair and Lewis Boobar was elected chair of the newly formed information needs committee.

#### **CULTURAL RESOURCES**

##### Lake-wide Assessment Program

A total of 86 sites in the assessment program were visited during the course of 6 multi-day trips and a number of one-day trips. Areas covered included the Escalante, Uplake, Midlake, Downlake, Orange Cliffs, and San Juan River assessment regions. Unsupervised and unauthorized visitation remains the highest impact agent, particularly at sites in the vicinity of Lake Powell. Nine sites visited are in excellent/stable condition, 36 are in good/stable condition, 32 are in fair condition, and 9 sites are in poor condition.

Within the 86 sites visited, 32 structures are listed on the recreation area List of Classified Structures (LCS). Wall-by-wall condition assessments were performed for all these structures and in some cases, additional baseline documentation such as structure size, wall length and height, and construction techniques were also recorded.

##### Site Documentation

In a continuing effort to identify and document new sites, 51 unrecorded sites were located and documented during FY99. An intensive survey of a portion of the Kaiparowits Plateau produced 21 new sites. Thirty additional sites were documented in the Escalante, Orange Cliffs, and Ferry Swale areas.

A total of 132 sites located in Glen Canyon NRA and documented during the State Land Exchange project were added to the recreation area database.

#### Site stabilization

Vanishing Treasures provided funding for stabilization work at Mistake Alcove in Slickrock Canyon. Glen Canyon NRA maintenance, interpretation, and resource management personnel spent two weeks hauling materials into the difficult-to-reach alcove in preparation for a crew from Mesa Verde to do the actual stabilization work. Three structures, two retaining walls, and two walled-use-areas were stabilized. A fence was constructed to prevent further unauthorized visitation and to help preserve the stabilization investment.

Vanishing Treasures provided additional funds to complete a baseline condition assessment and write a preservation plan in anticipation of future stabilization activities at Hi-Boy House in Moqui Canyon. This project was performed by personnel from the Cultural Center in Santa Fe.

#### Grand Canyon Monitoring & Research Center (GCMRC)

A total of 13 sites were assessed along the river corridor between the dam and Lees Ferry as part of the ongoing GCMRC Site Assessment Program. Total station mapping occurred at three sites.

All river sites were re-evaluated for eligibility and impacts from dam operations by archeologists from Glen Canyon NRA, the Bureau of Reclamation and Western Area Power Authority. Four sites were identified as being in need of testing. Site AZ:C:2:75 was considered to be the most critically endangered due to severe erosion, and funding was made available to test the site for nature and extent of any existing cultural deposits. A crew from the Western Archeological and Conservation Center (WACC), along with personnel from Glen Canyon NRA, performed the testing and determined that the site had been irreparably damaged by erosion and is no longer eligible for the National Register.

#### Lees Ferry/Lonely Dell Ranch Historic Structures Report

The recreation area contracted with Alliance Architects out of Phoenix to write a Historic Structures Report (HSR) as preparation for preservation activities at Lees Ferry/Lonely Dell Ranch Historic District. The HSR should be completed sometime in early 2000 and preservation activities should commence during FY00. This project is funded out of Fee Demo dollars and is being facilitated by Chris Goetze and Sayre Hutchison, Historical Architect from the Intermountain Region.

#### Administrative History

David Sproul, supervised by Professor Hal Rothman, University of Nevada, Las Vegas, took over the task of writing the Administrative History of Rainbow Bridge National Monument. The Intermountain Region is providing funding for the project. The history should be completed in FY00.

#### Compliance

Three small Section 106 compliance projects were carried out. One, a survey for an area of seismic testing related to the constructed wetlands project at

Wahweap, was performed by personnel from Wupatki National Monument. Two others, one for a road upgrade in the Orange Cliffs area, and one for a maintenance yard expansion in Hite, were performed by Glen Canyon NRA archeology personnel

#### Database/Base Map Management

The BOR contracted with PIII Archeologists to develop a database incorporating criteria from all known sites documented during the preinundation studies of the 1950s and 60s. This included producing maps with the best possible location data available. These site plots were checked against the Glen Canyon NRA base maps and corrections made where necessary.

All sites in the Glen Canyon NRA database were located in terms of the grazing allotment they fall within. This data has and will continue to be used during the production of EA's for grazing permits.

One hundred and forty one backlogged IMACS forms were entered into the IMACS database.

#### ARPA

The ARPA violation at Crumbling Kiva, documented with a damage assessment in 1995, was brought to a successful conclusion in FY99. Restitution included a fine of \$1079.80 and a requirement that the perpetrator write a peer-reviewed paper about the case. The Salt Lake City Tribune did a front-page story on the case, which was picked up and printed in a number of additional newspapers across the southwest.

One additional damage assessment was written for graffiti at a site in Steven's Canyon. This case is still pending.

#### Inadvertent Discovery MOU

Three meetings were held with members of affiliated tribes to obtain feedback and comments on an Memorandum of Understanding (MOU) being developed to deal with inadvertent discoveries of human remains. A final draft will be developed in FY00 that incorporates all comments and concerns discussed at these meetings.

#### Earthwatch Project

Sally Cole, a prominent rockart specialist, and volunteers from Earthwatch, documented a huge rockart site with over 70 panels in Glen Canyon NRA along the base of Cedar Mesa in the San Juan Area. Goetze participated as a member of the crew for four days of the project and served as recreation area liaison and logistical coordinator.

#### Training/Meetings

Goetze attended the First Intermountain Region Resource Conference held in Corpus Christi, TX in January. She also attended Helicopter Safety Training at Glen Canyon NRA in February, Introduction to Park Program Management in Grand Teton National Park in June, and participated on a SEPAS prioritization panel at the Regional Office in April. Joe Garrotto, seasonal Archeological Technician, attended NEPA/Section 106 training in Phoenix in July.

Goetze held cultural resource training sessions for Ben Bobowski's class *Allotment Management Planning; a Practicum*, interpretive training, and Wilderness River Adventures guide training.

#### Miscellaneous

In addition to managing all of the above, Goetze served as Acting Chief of Resource Management from August 1 to October 9, 1999.

### GEOGRAPHICAL INFORMATION SYSTEMS

#### VII. Lake Powell Mapping Project

The final vector creation phase of the Lake Powell Bathymetric Mapping project was accomplished and a full Vector contour edge match of 310 topographic coverages was complete. This project maps Lake Powell in its entirety at a 10 foot contour interval for the Colorado River portion and at a twenty foot contour interval for the San Juan Portion of Lake Powell. The data was converted to AZ State Plane Coordinate System/Units Meters. The final Quality Assurance and Rasterization will be completed in early FY2000. The project is being done in cooperation with the Grand Canyon Monitoring and Research Center (GCMRC), Flagstaff, Arizona.

#### Benthic GIS Model:

GIS, in cooperation with the Aquatic Ecologist and staff, created a Benthic Habitat/Water Quality GIS model. This model was created to identify canyons of likeness for a 10-canyon study in cooperation with the USGS BRD - Water Quality Division. The purpose is to identify factors that potentially affect the water quality of Lake Powell. The model is a predictive modeling tool used to assess canyon visitor carrying capacity and it is envisioned that it will be the guide for water sampling within Lake Powell.

#### Management Zones:

The Final Management Zone Database was finalized using the General Management Plan, updated State Lands Database, and current areas of active mineral leases.

#### Vegetation Mapping:

Glen Canyon National Recreation Area's Vegetation Database was updated. A total of 30 vegetation field maps were created for field studies in cooperation with the BRD.

#### Grazing:

Final changes to Glen Canyon National Recreation Area's Grazing Database were completed and new grazing maps created.

#### **Antelope Point Project:**

A complete GPS Survey and Boundary mapping project was conducted in cooperation with Professional Services for establishing jurisdiction and development sites for Antelope Point Development Project. Aerial photo maps were produced for use at Navajo Nation and National Park Service Public Meetings.

#### **GPS:**

The GIS specialist provided GPS support to Cultural Resources, Natural Resources, Law Enforcement and Professional Services in support of incidents, surveys, research and monitoring.

#### **GIS Plan:**

Glen Canyon National Recreation Areas Geographical Information Systems Plan was updated.

#### **GIS Database Documentation:**

A comprehensive index of Glen Canyon National Recreation Areas GIS coverages and data sources was created for the purpose of data documentation and end user data access.

#### **Hardware and Software Maintenance:**

The UNIX based Software and Hardware was upgraded and backups maintained of Geographical Information System databases.

#### **Training:**

The GIS Specialist attended GIS workshops at Environmental System Research Institutes Annual Arc/Info User Conference.

### **VIII. RESEARCH COORDINATION ACTIVITIES**

#### **Research project organization**

Glen Canyon NRA Research Study Proposal (RSP) project files contain 281 entries for natural, cultural, or paleontological projects either ongoing or completed. Twenty-five projects are recorded as ongoing by park staff. Fifteen projects are ongoing along the Colorado River in both Grand Canyon NP and Glen Canyon NRA as part of the Grand Canyon Monitoring and Research Center (GCMRC) program.



### Permitting

Glen Canyon NRA issued five Special Use Permits in 1999 for research within the park. Another 15 permits were issued by Grand Canyon NP as part of the cooperative agreement between the two parks facilitating the Grand Canyon Monitoring and Research Program efforts. Grand Canyon Monitoring and Research expends approximately \$6 million each year on research and monitoring efforts between the two parks. A comprehensive Special Use Permit was issued to the Utah Division of Wildlife Resources for their five ongoing projects related to the recreational fisheries in Lake Powell. Negotiations were initiated with the BLM (Monticello) regarding the issuance of river permits for research on the San Juan River. Specific conditions were developed to ensure that the resources of the canyon were preserved.

The Research Coordinator prepared a draft NPS Reference Manual for research and collecting within the National Park Service. This manual culminates work by the research/collecting steering committee initiated two years ago.

### Proposal development

The Research Coordinator coordinated the submission of over 20 research and resource management funding proposals in 1999 for NPS (SEPAS) and external funding sources.

### Fish Management Plan

As required by the Fish Management Plan, representatives from UDWR and Glen Canyon NRA met to discuss upcoming management programs regarding recreational fisheries.

### Glen Canyon Dam Adaptive Management Program

Three AMWG meetings were held in 1999 (January, July, October). Nine Technical Workgroup meetings were held throughout the year. The FY-2000 GCMRC workplan was reviewed and approved. The FY-2001 conceptual workplan was reviewed and approved. The legitimacy of the Lake Powell monitoring program was settled when a compromise split in effort was made between monitoring on Lake Powell related to downstream resources (mostly water quality) and monitoring of resources that remain upstream. Those that relate to downstream became officially part of the Adaptive Management Program. A specific Lake Powell Monitoring program was developed.

**Flood flows** - No flows above power plant capacity occurred in 1999 since the hydrologic trigger was not reached. However, NEPA and ESA compliance for an anticipated flow occurred. Further review of the flood avoidance criteria by members of the TWG resulted in no change in strategy putting the hydrologic triggering criteria in jeopardy. The restrictions placed on above power plant flows by the upper basin states is beginning to put into question the ability of the DOI Secretary to implement the spirit of the Glen Canyon Dam EIS Record of Decision.

**Temperature Control Device (TCD)**- As part of the Glen Canyon Dam EIS the Bureau of Reclamation (BOR) was to investigate the efficacy of installing a Temperature Control Device on Glen Canyon Dam to determine if warmer temperatures would enhance the survivability of endangered

fish. The initial EA written for construction of the device was very controversial and forced the BOR to conduct a TCD workshop that brought all resource experts together in an attempt to come to consensus regarding how to proceed. The workshop was held 10/8-10 outside of Mesa, AZ. No consensus occurred at the workshop and it is unknown how the BOR will proceed. The BOR has obtained congressional approval and preliminary funding to proceed with construction and analysis.

**Lake Powell monitoring** - A Lake Powell monitoring plan was developed, closely reviewed by the Research Coordinator and ultimately approved by the AMWG. Monitoring in 1999 consisted of quarterly trips and monthly forebay sampling.

#### San Juan River Recovery Program

Glen Canyon NRA continues to take an active role in the San Juan RIP and is anxious to become a voting member of the coordinating committee. The committee reached no consensus to admit the NPS as a member. We continue to participate in the Biology Committee meetings and issue research permits for activities that occur within Glen Canyon NRA.

#### Inventory and Monitoring

The Research Coordinator continued as a member of the steering committee for the NPS I&M program. New funds were received in 1999 for FY-2000 and recommendations were made on how to fairly allocate those funds to parks. A new initiative of vertebrate monitoring will be initiated in FY-2000 with parks clustered into networks associated through geography and resource similarity. It is expected that over the next three years vertebrate inventories will be complete in all parks with significant natural resources.

#### Escalante River Wild and Scenic Designation

The Research Coordinator was assigned the task of developing a NPS proposal for wild, scenic or recreational status of the Escalante River watershed for Glen Canyon NRA. In conjunction with the BLM, USFS, and Utah an MOU was signed agreeing to work cooperatively to evaluate river segments within the Escalante River drainage. The BLM prepared a general management plan that incorporated the final recommendation of the group. The other federal agencies were expected to evaluate and nominate segments within their jurisdictions. After the initial BLM evaluation Utah determined that it could not proactively advocate designation at this time. Because of Utah's reluctance, Glen Canyon NRA management has determined that the NPS nomination should be postponed.

### **VEGETATION MANAGEMENT**

#### Ongoing resource programs

The exotic plant program continued its efforts to eradicate several invasive and noxious weeds in Glen Canyon NRA. Control of Russian Knapweed at Halls Crossing and Lees Ferry continued, with all aboveground shoots eliminated. Ravenna Grass is under control at Lees Ferry. Russian Olive control was

continued along the Colorado River between Glen Canyon Dam and Lees Ferry. The Lake Mead NRA tamarisk crew worked on two projects at Glen Canyon NRA. Tamarisk was eliminated at Rainbow Bridge NM to just beyond the bridge along Bridge Canyon. All large patches of Tamarisk between Hurricane Wash and the Escalante River through Coyote Gulch were eliminated in 1999. A few small plants in scattered areas linger, but will be removed as encountered during routine patrols. Cooperation between the Lake Mead crew, Resource Management Division, and the Escalante Subdistrict Office enabled this project to be completed. An exotics database was established in 1999. Coordination with the exotics mapping program of the U.S.G.S. Colorado Plateau Field Station continued in 1999. The weed specialist (Mr. Tom Haberle) attended an exotic control workshop at Moab hosted by the State of Utah.

Surveys for the federally listed Navajo Sedge (*Carex specuicola*) were completed along the San Juan River. Monitoring of the federally listed Brady's Pediocactus (*Pediocactus bradyi*) was conducted.

A preliminary vegetation map at the 1:24,000 scale was completed for Glen Canyon NRA.

Initiated preparation of new Research Natural Area designations in Glen Canyon NRA, in cooperation with The Nature Conservancy, with submission of designations in FY2000.

**The Range Ecologist (Mr. Ben Bobowski) is in the Student Career Education Program (SCEP) and attended courses at Utah State University (USU) from September 1998 through May 1999. These classes were successfully completed and will be credited towards his doctoral degree. While taking classes at USU, Mr. Bobowski worked intermittently on grazing related projects which included reviews of environmental documents, maintained contact with the Bureau of Land Management (BLM) Field Office personnel, attended an Interagency Grazing meeting, and assisted with the environmental assessment process for the final approval of the Grazing Component of the Resource Management Plan (also referred to as Glen Canyon National Recreation Area's Grazing Management Plan).**

In addition to the above-mentioned activities, Mr. Bobowski taught an undergraduate course at USU. This course provided for the collection and synthesis of scientific information regarding grazing management on Park Service and BLM lands. Before leaving USU in May, Mr. Bobowski coordinated with the BLM and USU faculty to develop the Rangeland Ecology Applied Studies Program. This program will facilitate future interaction among resource professionals, faculty, students and public to improve resource management of federal, state and private lands within the state of Utah.

Upon the return of the Range Ecologist in May, a two-month pilot project was completed. This project assessed the effectiveness of using low aerial photography to estimate ecological condition of large areas across allotments and larger landscapes. The project is scheduled for completion in FY00.

An Interagency Monitoring meeting was held in July of 1999. Each of the three BLM Field Offices that manage grazing on priority allotments attended. Priority Allotment monitoring programs were evaluated and recommendations were made for action in FY00.

Finally, Mr. Bobowski collaborated with the BLM and USU to develop the Institute for the Community Stewardship of Natural Resources. This institute

builds off of the ideas developed in the Rangeland Ecology Applied Studies Program and applies them at a regional scale. The focus of the Institute is shared learning. We recognize that the long term adaptability of individuals, groups and societies will depend upon a respect for and a union of alternative perceptions about resource issues.

#### IX. Research projects

The first year of the U.S.G.S. project researching the effects of livestock grazing on upland vegetation in Glen Canyon NRA was completed. Methods and field sites were selected, and a preliminary GIS analysis was completed.

The Botanist and other NPS staff participated on two research trips studying the dynamics of riparian vegetation through Grand Canyon as part of the Grand Canyon Monitoring and Research Center-funded studies on the effects of Glen Canyon Dam operations on down river resources.

A grant proposal to study the remnants of old high water riparian vegetation in Glen Canyon was submitted to the Central Utah Project, Bureau of Reclamation. This proposal was funded, with fieldwork to commence in FY2000.

#### Training and meetings

The Botanist attended training, meetings and completed the following during 1999:

Successfully completed O.A.S. basic aviation safety, 9 February. Attended a Grand Canyon Monitoring and Research Center workshop on the development of a conceptual computer model of the effects of Glen Canyon Dam operations on downstream resources, October 23-25.

Attended the first Intermountain Region Resource Management meeting held in Corpus Christi, January 1999, and presented two talks, (1) a conceptual approach to completing an resource inventory project, and (2) botanical aspects of ethnobotanical research.

Presented a talk at the Grand Canyon River Guides Association annual training workshop on 27 March. The talk was "Springs and seeps of the Grand Canyon: biota and water chemistry".

Gave a presentation at the Grand Canyon Monitoring and Research Center investigators annual meeting at the South Rim, Grand Canyon NP, 17 February on "Three years of riparian avifauna monitoring along the Colorado River in Glen, Marble and Grand Canyons".

Was involved in public meetings in March on the Glen Canyon NRA draft grazing management plan in Page, Kanab, Escalante, Hanksville, and Monticello.

Completed training for the Interpretive Division seasonal training program on plants, animals and geology of Glen Canyon NRA in May.

Successfully completed "Introduction to Park Program Management" held at Grand Teton NP, June 21-25.

Was invited to Australia by the Australian Biological Resources Section of CSIRO to prepare the final draft of treatments for Volume 51 of the Flora of Australia, for two weeks in August.

Manuscript reviewer in 1999 for the journals *Arctic*, *Antarctic and Alpine Research* and *Journal of Bryology*.

#### Publications in 1999:

Spence, J.R. and H.P. Ramsay. 1999. Three new species of *Rosulabryum* (Musci, Bryaceae) from Australia. *Telopea* 8: 325-335.

Spence, J.R. and H.P. Ramsay. 1999. (1435) Proposal to conserve the name *Bryum* (Musci, Bryaceae) with a conserved type. *Taxon* 48: 827-828.

The Range Ecologist (Ben Bobowski) attended training, meetings and completed the following projects during 1999:

Completed Projects:

Reports - Bobowski, B.R. 1999. Grazing Management Practices at Glen Canyon National Recreation Area. A Report to the Superintendent, National Park Service, Glen Canyon National Recreation Area, Page, AZ.

Publications- Bobowski, B.R., D. Hole, P.G. Wolf, L. Bryant. 1999. Identification of roots of woody species using polymerase chain reaction (PCR) and restriction fragment length polymorphism (RFLP) analysis. Molecular Ecology, Vol. 8.

Bobowski, B.R., G.A. Rasmussen. 1999. Helping Land Managers Develop Grazing Systems Compatible with Waterfowl Production on Wetlands. Society for Range Management, Abstracts, Vol. 52.

Proposals- Bobowski, B.R. 1999. Allotment Management Planning: A Practicum. College of Natural Resources, Utah State University. (*FUNDED* January 1999- \$900.00).

Bobowski, B.R. 1999. Rangeland Resources Monitoring: Concepts and Practical Applications. Utah State University, Dissertation Proposal (*APPROVED* by Supervisory Committee - April, 1999)

Bobowski, B.R. 1999. Rangeland Resources Monitoring for Natural Resources Sustainability. National Park Foundation (*pre-proposal APPROVED* May 1999 - \$24,000)

Instruction- Allotment Management Planning: A Practicum. A three credit undergraduate course that focused on the practical applications of natural resource principles and theories. This course resulted in a *draft* allotment management plan for the Waterpocket Fold Allotment. Utah State University, spring semester, 1999.

Research- Monitoring: I have *completed* the research for the first hypothesis of my dissertation - Monitoring can be defined as a feedback loop.

Power Analysis: I have also *completed* the research for the second hypothesis of my dissertation - Power analysis is a

critical component of any monitoring system, especially those of rangeland resources.

Meetings- *hosted* an Interagency Monitoring Meeting for Grazing Management

*Attended* the Society for Range Management national meeting

#### Program Development

Collaborative development of the Rangeland Ecology Applied Studies Program

Collaborative development of the Institute for the Community Stewardship of Natural Resources.

Presentations- Grazing Management at Glen Canyon NRA. Interagency Meeting, Escalante Utah, January 1999.

Grazing Management on Public Lands: Opportunities for Creativity. Utah State University, April 1999.

Other- Image Acquisition: TM satellite imagery for the Utah portion of Glen Canyon NRA was acquired from the Geography Department, Utah State University. Estimated Value \$45,000.00

#### **WILDLIFE MANAGEMENT**

##### Ongoing resource programs

Monitoring of Bald Eagles was completed during December 1998 to February 1999.

Surveys for Southwestern Willow Flycatcher were conducted along the Escalante River in May and June.

The first year of an inventory of the avifauna of Glen Canyon NRA was completed. Work was conducted in a variety of habitats in the Escalante District and in side canyons of Lake Powell. A total of 355 point counts and 67 transects were completed. In all, 232 species were detected, out of a total of 295 for Glen Canyon NRA. Nine species previously unrecorded were added to the Glen Canyon NRA list. A draft field checklist of the birds of Glen Canyon NRA was completed.

On April 21, 1999, a Yellow-footed Gull was observed at Lone Rock Beach on Lake Powell. Later that same day it was seen near the dam in Arizona. This species has never been recorded before in Utah or Arizona, and represents the first documented record for both states (reported in *North American Birds* 53: 307, 310, 344 (photo), 1999).

A new mammal species was added to the Glen Canyon NRA list when evidence of river otter was detected in the Last Chance Creek area of Lake Powell after NPS personnel investigated a visual sighting of an animal by visitors.

Fieldwork was completed on water bird surveys of the Colorado River between Glen Canyon Dam and Lees Ferry. An Excel database was prepared and all data from 1991-1999 entered. A final report is being prepared.

An Excel database was prepared and all data entered on avian censuses conducted between 1994-1998 at two sites at Lees Ferry, Paria Beach, and Lonely Dell.

#### Research projects

Fieldwork continued on the Grand Canyon Monitoring and Research Center-funded project to monitor riparian and winter avifauna, and endangered Southwestern Willow Flycatcher along the Colorado River from Glen Canyon Dam to Diamond Creek. In all, two winter, three breeding bird, and four flycatcher river trips were successfully completed and all data entered in Excel databases. For the first time since 1994, a Southwestern Willow Flycatcher was detected in Glen Canyon above Lees Ferry.

#### Training and meetings

John Spence and two term appointment ornithologists, Charles LaRue and Jennifer Holmes, attended training, meetings and completed the following during 1999:

Completed DOI boat training.

Participated in the Arizona Partners in Flight (PIF) program to develop a habitat conservation plan for rare and sensitive birds of Arizona. Dr. Spence and Mr. LaRue were presented with awards for their contributions to the plan by the Arizona Department of Game and Fish at a meeting of the Arizona PIF on April 6th.

Cooperated with Arizona Game and Fish Department on fieldwork in Grand Canyon NP and elsewhere for the Arizona Breeding Bird Atlas Program, April-June.

Dr. Spence agreed to participate in the publication of the Atlas by writing the chapter on the vegetation of Arizona.

Participated in a multi-agency meeting on management of California Condor in the greater Grand Canyon region.

Participated in the Arizona Rare Bird Record Committee, with rare bird records published in *North American Birds* and *Western Birds*.

#### Publications in 1999:

Hejl, S.J. and J.A. Holmes. 2000. Winter Wren (*Troglodytes troglodytes*). in *The Birds of North America*. (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologist's Union, Washington, DC (in press).

LaRue, C.T. 1999. Cold desert scrub habitat. Pp 137-138 in Latta, M.J., C.J. Beardmore, and T.E. Corman (eds.). Arizona Partners in Flight bird conservation plan. Technical Report 142. Nongame and Endangered Wildlife Program, Arizona Game and Fish Department.

LaRue, C.T. 1999. Juniper Titmouse (*Baeolophus griseus*). Pp 81-83 in Latta, M.J., C.J. Beardmore, and T.E. Corman (eds.). Arizona Partners in Flight bird conservation plan. Technical Report 142. Nongame and Endangered Wildlife Program, Arizona Game and Fish Department.

LaRue, C.T. 1999. Gray Vireo (*Vireo vicinior*). Pp 75-77 in Latta, M.J., C.J. Beardmore, and T.E. Corman (eds.). Arizona Partners in Flight bird conservation plan. Technical Report 142. Nongame and Endangered Wildlife Program, Arizona Game and Fish Department.

LaRue, C.T. 1999. Sage Thrasher (*Oreoscoptes montanus*). Pp 138-140 in Latta, M.J., C.J. Beardmore, and T.E. Corman (eds.). Arizona Partners in Flight bird conservation plan. Technical Report 142. Nongame and Endangered Wildlife Program, Arizona Game and Fish Department.

Spence, J.R. 1999. High elevation grasslands. Pp 165-168 in Latta, M.J., C.J. Beardmore, and T.E. Corman (eds.). Arizona Partners in Flight bird conservation plan. Technical Report 142. Nongame and Endangered Wildlife Program, Arizona Game and Fish Department.

## **AMERICAN INDIAN LIAISON**

### **Ongoing cultural projects:**

Liaison and coordination between park managers and five separate American Indian tribal governments and/or people was ongoing to accomplish consultation, understanding, and information exchange.

Rainbow Bridge National Monument's Native American Consultation Committee (NACC) continues to have its annual meetings. The trail work from the walkway dock to the Bridge has been rehabilitated and a small shade structure has been constructed for the benefit of the Interpretative staff.

The Native American Graves Protection and Repatriation (NAGPRA) program at Glen Canyon NRA has been working on a Memorandum of Understanding (MOU). This MOU will be between tribes and Glen Canyon NRA to clarify the process in the event of inadvertent discoveries of human remains in the park. Chris Goetze and Pauline Wilson held three different tribal meetings to solicit input from tribal groups. The draft MOU is being reviewed by all parties involved and the process is expected to be slow.

The Antelope Point Marina development project continues to have meetings among the National Park Service, Bureau of Indian Affairs, Navajo Tribal Utility Authority and Navajo Nation (Window Rock offices, local chapter officials, and land users) to address issues and concerns.

Glen Canyon NRA proposed to upgrade and develop a radio tower/transmitter on Navajo Mountain, and all compliance work has been completed. However, during the ethnography assessment study, consultation with several Navajo individuals indicated concerns about disturbance of the mountain and Navajo religious significance. The Navajo Mountain Chapter officials requested the topic be brought back to the people of the community and a resolution prepared in accordance with the outcome of the chapter meeting. Meanwhile, the Navajo Nation has had a turn over in the tribal administration and election of new council delegates throughout the nation. We anticipate the topic to be on the chapter's agenda this year.

The park submitted a proposed water rights request to Utah for water at Rainbow Bridge NM. The wording of the document was reviewed by the Rainbow



Bridge NACC and the Navajo Nation. The review comments strengthened the document and were incorporated in the final document.

**Liaison assistance to other parks and agency:**

Petrified Forest National Park and Capitol Reef National Park were provided assistance in organizing consultations with Navajo chapters on the tribal affiliations with the parks. Navajo language translation was provided in conducting interviews with Navajo elders regarding park resources and their need for access into the park.

The Grand Staircase-Escalante National Monument administered by the Bureau of Land Management has an Interagency Agreement for liaison services in establishing consultation with affiliated Navajo Nation chapters and the appropriate government-to-government relationships.

**Training:**

Pauline Wilson assisted the Albright Training Center in conducting their annual Intake class on an orientation trip to Rainbow Bridge NM.

The Bureau of Reclamation and Glen Canyon NRA jointly conducted and hosted a quarterly meeting at the Glen Canyon Dam for the Northern Arizona Special Emphasis Coordinators.

Glen Canyon NRA Equal Employment Opportunity (EEO) committee hosted a course titled, "Managing a Culturally Diverse workforce," for park staff on understanding Native American Indian tribes.

**Awards:**

An On-the-Spot Award was given to Pauline Wilson in recognition of the manner in which she has carried out consultation activities between Glen Canyon NRA, other National Park Service units on the Colorado Plateau, and governments and individuals of tribes affiliated with those park units.